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IN view of the fact that the attempt to implant a new industry in this country by legislative enactment has been treated by the two great political parties as so much "campaign" material and, consequently, has been so differently stated and reasoned upon by, generally, equally credible authorities, we have abstained from taking any share in discussing the matter of the manufacture of American tin-plate. Feeling that at last sufficient time has elapsed for the actual accomplishment of something by those who thought it wise to embark capital in the business, we have caused an investigation to be made by one in whose ability and integrity we had confidence but of whose political faith we know absolutely nothing, and this week publish at length the result of his inquiry. The following extract will indicate the spirit in which the investigation was prosecuted:

"I have encountered some contrary statements in my investigation but I have done the work conscientiously and without any desire to make a case or distort facts and statements, or to do anything which could involve the *American Architect*. I feel the importance of doing just the right thing and representing the interest truthfully. I have tried to do so. There may be some minor errors but I hardly expect to see them shown. I have come out of this investigation fully assured in my own mind that the tin-plate industry is bound to be a great and abiding success."

WE do not think that sufficient publicity has ever been given to the remarkable experiment made at Detroit, during a severe epidemic of diphtheria and scarlet fever, in checking the spread of the disease by disinfecting the sewers with sulphur, tons of which were burned in them. The experiment seems to have been signally successful. Of course, it would be rash to infer, from a single trial, the causal connection of things which may possibly have been simply coincident; but it is certain that as soon as the sewers had been saturated with the fumes of the burning sulphur, the epidemic declined rapidly, and both diphtheria and scarlet fever soon disappeared. The probability that cholera will make its appearance next summer in at least some of our large cities suggests the propriety of adopting this simple and inexpensive precaution, in case of the introduction of the epidemic into any sewered town. Every one knows that the fumes of burning sulphur form the most potent of disinfectants, and cholera would, in our cities, probably spread more rapidly through the sewers than in any other way. It will be remembered that at Croydon, after the introduction of sewers, typhoid fever, which had previously been endemic in the lower parts of the town, but was almost unknown in the upper regions, inhabited by the rich and well-cared for people, suddenly appeared in an alarming form in the upper quarters, as if the new sewers had conducted the contagion from the abodes of filthy misery to those of wealth and cleanliness. The same thing may be expected to happen with cholera germs, which if once introduced into the sewers, would, if they will float in the air when dried, which seems to be the case, have plenty of opportunities to escape through street ventilators, dry traps and leaky soil-pipes, all over the city. The saturation of the sewers, at short intervals, with sulphur vapor would destroy the germs contained in them, and, it would seem, do much to localize any sporadic case, or group of cases, while no harm could be done by the operation. Indeed, the principal homœopathic prophylactic against Asiatic cholera is sulphur; so that the inhalation of a few stray fumes, although perhaps unpleasant, ought to make the person into whose nose they accidentally penetrated feel himself doubly protected.

THE Philadelphia Art Club will hold an exhibition, of oil paintings and sculpture only, from November 14 to December 25. As the wall-space in the galleries is limited, contributors are requested to make a selection of one or two of their best works, rather than a larger number. Nothing will be received which has been previously publicly exhibited in Philadelphia, and only living artists are to be represented. Contributions are collected and forwarded, free of expense, in Philadelphia, New York and Boston. Two gold medals, one for painting and one for sculpture, will be awarded, subject to the club rules. Entries must be made not later than October 22. Mr. Carl Newman, Secretary of the Exhibition, may be addressed at the Philadelphia Art Club, for further particulars.

HERR FRANZ PAUL PIGER, of Iglau, gives, in the Berlin *Bautechnische Zeitschrift*, a very curious account of the practices of the building-trade guilds, which still exist in the remoter provinces of Austria, and keep up customs which have descended from the Middle Ages. In the case of Austria, these traditional practices have a peculiar political interest, inasmuch as, according to Herr Piger, it is by means of the trade guilds that German national feeling, and, to a certain extent, the German language itself, has been kept alive in districts where the humbler German inhabitants, left to themselves by the selfish and haughty clergy and aristocracy of the last few centuries, would have been absorbed and lost in the flood of Slavonic immigration had it not been for the firmness with which they were bound together in the great trade corporations.

AT present, although the trade guilds have no official standing, and a great deal of building is executed without their aid, they maintain their organization and many of their old customs, and their members, proud of their position, look down with contempt upon the "day-work men," whom they regard as ignorant interlopers. Naturally, the principal building corporations are those of the masons and carpenters, and, while they are good friends, they have never yet been able to settle the question, which has harassed them since the Middle Ages, of the comparative dignity of the two corporations. On Corpus Christi day there is usually a procession of the guilds in the towns, and the carpenters and masons both wish to head the procession. The masons claim the honor, on account of the antiquity of their association, which they trace back to Roman times, pointing out that, in the Middle Ages, only nobles were admitted to the privileges of Freemasonry. On the other hand, the carpenters maintain that their spiritual standing, as being under the protection of Saint Joseph, whose Divine foster-son himself worked at the bench, is far superior to that of the Freemasons, who have only Saint Rochus for a patron, and they think that their earthly dignity should conform to this view. The dispute is settled in various ways, and for the rest of the year the carpenters and masons practise faithfully the mutual duties incident to the cousinly relationship which they confess to exist between them. At present, the rules of the masons' and carpenters' guilds are nearly the same. In each, admission to membership is only to be had after three years of apprenticeship. Twice in the year applications are heard from those who have passed this stage, and the candidates are presented before the assembled brethren. As each is brought forward by the brother assigned to that task, the persons present are called upon to speak if they know anything to his discredit. If no accusation of unworthy conduct is brought against him, if he has never been seen smoking or brawling in the streets, he is accepted. The oldest member takes him by the hand, with a few words of counsel as to his

conduct in his new position, and wishes him happiness, and, after he has shaken hands with all the members present, the new brother takes his seat in the lowest place, next the members of most recent standing.

IN their work on the buildings which they construct, the brethren follow many quaint old customs. Before the building is begun, all those who are to take part in the work repair to the church to pray for a blessing on their efforts. Even the new building itself, and the ground on which it stands, are held to be in a certain degree consecrated, and all improper conduct there is punished. If a new workman is hired, he can be received only by suitable ceremonies. If he is a strange journeyman, he must leave his stick and knapsack outside the limits of the building-lot, and, without speaking to any of the workmen, apply to the head builder to be received. If the latter consents to employ him, but not until then, the other workmen may talk to him. Every morning, before beginning work, all the men repeat the words: "In God's name I begin to work; may God bless us this day, that no evil befall us." The foreman, or "polirer," inspects each morning the staging, to see that it has not been tampered-with over night, and that it is nowhere unduly loaded, and then assigns to each man his work. During the erection of the building the place belongs to the workmen. If a stranger makes his way into it, he is politely received, but, when he wishes to depart, he finds his way obstructed by a cord held by two of the nearest workmen, who only release him on payment of a fee, which goes into the treasury of the guild. On one occasion only is the public allowed to enter the building indiscriminately. This is the day of the completion of the vaulting of the first floor. The keystone of the vault is left out, and, if substantial-looking visitors make their appearance, one of them is invited to put the keystone in place, and is, for this honor, which he is not allowed to refuse, expected to provide a liberal "*trinkgeld*" for the workmen. The setting of the corner-stone is a ceremony indispensable to the proper construction of the building. A large, handsome stone is selected, and at the proper time the owner is invited to set it in its place, which should be a corner, if possible, not adjoining another estate. As the stone is lowered into its place, the owner strikes it with a little mallet preserved by the guild for the purpose, and pronounces a blessing on the building, and is followed by the builder and the "polirer." The greatest festivities, however, are connected with the placing of the roof on the building. Everything is made ready the day before, so that the work may begin early in the morning, as it is indispensable that all the rafters should be in place before night. The eventful day is ushered in by a special religious service on the part of the workmen. If any one has been injured during the progress of the building, he is remembered in the prayers of his brethren; and, if any one has been killed, a collection is taken up for his widow and children, if he has left any. The work is then commenced with vigor. When all the rafters are on, a little fir-tree is fastened to the gable, and green boughs are placed in other parts of the building. In some districts, the foreman, seated astride the ridge, delivers an oration, at the end of which he takes three drinks from a glass handed him by one of two girls, who, adorned with crowns, stand on the floor below him. At each drink he pronounces a blessing on the new house. The three drinks are expected to empty the glass, which the foreman then throws to the ground. If it is not broken by the fall the omen is considered to be fortunate, and the glass is carefully preserved by the owner, or by the officials in charge, if the building is a public one. The evening is then spent in songs, felicitations and festivity, and the party breaks up with the singing of an old song, the mason's version of which is:

"Kaum ist ein Bau vorbei,
Da giebt's viel Schmauserei,
Viel zu essen, zu trinken
Gebrat'ne Würst und Schinken,
Gutes Bier und auch ein'n Wein,
Da möcht ein Jeder Maurer sein."

A FRENCHMAN, who has been making a visit in London, writes to the *Builder*, to make a complaint in which he will have the sympathy of countless travellers, not only in London, but in most of the English and American cities. Brought up, as he has been, to see every street marked at every corner by the names of both the intersecting thoroughfares, in plain, uniform letters in blue and white, on porcelain tablets affixed to the walls of the building, with the addition of maps of the immediate neighborhood, in the same material, at the more frequented corners, he finds it difficult, without a guide, to make his way about the side streets of London, which are often either not marked at all, or designated in some way so obscure or unexpected as to be little better than nothing. Every one who has found his way about an unfamiliar city with the help of a map will remember the delays, difficulties and exasperations which come from this inexcusable carelessness. To take our own towns, New York, as the metropolis, has taken some pains to make it easy for visitors to go about their work or pleasure without getting lost. Thanks to the inestimable, though unsentimental fashion of numbering the streets, taken in connection with the uniform practice of putting the name of every street and cross-street on the lamp-post nearest the intersection, it is easier and pleasanter to go about in New York, by day or night, than in any other large town in the world that we know of. Here, however, American "edility" appears to have rested from its efforts. Many other towns put, occasionally, the street-names on the lamps, but, this done, no one looks after them, to see whether the names are kept in their proper places, and it is common to find that they have fallen out, or have been put in upside down, or, worst of all, have been turned around, either by twisting the lamp, or by careless or mischievous resetting, so that they point in directions at right angles with those of the streets they profess to designate. The effect of the discovery, after half an hour or so of comparisons, references to the map, and retreating and advancing in different directions, of this transposition upon the temper of a visitor, on his way to make a call in a strange city, may be imagined; but it is hardly worse than the total absence of signs, of any description, which characterizes miles of streets in the older towns, like Boston. Taking the whole city over, the amount of time lost every day in delays, hesitations and strayings from the right road, which might be entirely avoided by an efficient system of street naming, must be very considerable; and it is not too much to say that a clear, uniform and accurate method of designating streets for the convenience of strangers adds very materially to the attraction which the city employing it offers to visitors.

THE Berlin *Bautechnische Zeitschrift* makes some extraordinary assertions about the effect upon timber of the season at which it is felled. According to this journal, which is usually well-informed, four red-pine trees, of about the same age, growing in the same soil, and, to all appearance, equally healthy, were cut down during the same winter, at intervals of a month, the first being felled in December, and the last in March. Four beams, of equal size, were made out of the timber, and tested by loading. The beam from the December-cut tree was the strongest; that from the January tree was twelve per cent weaker; that from the February felling twenty per cent; and the March felling thirty-eight per cent weaker. It is reasonable to suppose that there might be some difference in the strength, as dry wood is well known to be stronger than the same wood when wet, and there is probably sufficient movement of the sap by March to make the timber perceptibly more moist than in December; but a difference of thirty-eight per cent is rather startling, and we need hardly point out that, if two beams of December-cut timber will do more work than three of February cutting, as appears to be indicated by these experiments, there is a considerable economical importance in knowing which sort is to be employed for a given building. Another experiment was made, by cutting down one red-pine tree in December, and another in February, and burying the trunks in damp earth. In eight years, the February-cut trunks were completely rotten, while, after sixteen years, the one cut in December was found still sound and hard. In this case again, it seems possible that, as is certainly the case with deciduous trees, the pine trunks may have gradually filled with sap during the winter; and, as the sap of all trees is easily decomposed, and, in decomposing, seems to affect the tissues containing it, there may be reason for the more speedy decay of the later-cut wood. The third experiment, however, disclosed results which can hardly be accounted for on this theory. Two beech trees were cut down, one in December, and the other in February, and the felloes of wheels made of the wood. Two of these wheels were subjected to similar wear, and, in two years afterward, the one whose felloes were made from the February timber was worn out, while the other wheel, in which the December wood was used, lasted for six years.

AMERICAN TIN-PLATES.

THE "tin-plate question" has absorbed much attention for a year or two past, and the general public seem to have reached no very definite conclusion as yet. The practical points which architects, builders and users of tin-plate directly desire to be informed upon, and the general public also, are, 1st. Are tin-plates being made to any extent? 2d. What is the quality of the product as compared to the imported product? 3d. Will the production of tin-plate in the United States under duties, work to the benefit or detriment of the general public?

Not only has the existence of a tin-plate industry in the United States been doubted by many writers in a portion of the public press, but the possibility of the successful establishment of such an industry in this country has been questioned with more or less seriousness. That much of the outcry against it is not altogether dissociated from political or, rather, party prejudice, seems evident from the perusal of much of the loose writing on this much discussed question. That there is a strong feeling in many quarters against the policy of building up a new industry through high tariff duties, is apparent; and in some respects, this opposition is not unreasonable, especially if it be based upon the belief that the high duties will permanently add to the cost of the home-manufactured product. Be the motives or reasons what they may, which are arrayed against the establishment of a tin-plate industry in the United States by a protective tariff of 2.2 cents per pound, it is certain that the feeling in many quarters is most intense in opposition, beyond the limits which mere business considerations would suggest. On the other hand, there is an equally strong feeling favorable to the proposed industry, and this is shared in by many more than those directly interested.

The argument has been made on general grounds for twenty-five years past, that the tin and terne plate used in this country should be manufactured here. Futile efforts have been made in years past, but the temper of Congress was in the direction of lower duties, and increasing the free list, rather than in the direction of higher duties or broader protection. It was not until demand grew to its present enormous proportions, and until organization was effected among some of those who wished to establish this industry, that the successful effort was made to secure such protection as would make it possible and safe. The entire history of the effort is interesting, and even now, when the new industry is struggling to its feet, the fight keeps up in the newspaper press; but it has assumed the phase of possible exaggeration on one side, and belittlement on the other.

It was with a view of arriving at the actual facts that the investigation was made which is the basis of the statements following. No attempt will be made to summarize all that has been written on one side and the other; nor will any words be wasted in the discussion of the wisdom or unwisdom of the legislation on which the new industry is based. The only matter in hand is to ascertain the actual facts and conditions of the tin-plate business, so far as possible at the present time. The specific necessity and occasion for this inquiry is, reiterated statements, mostly by editorial writers in some of the leading dailies of the country, that the tin-plate industry is a sham, a myth, and that it has not been put upon a substantial foundation in this country. To meet this point at the outset, it will be best to utilize the information furnished by Ira Ayer, special agent employed by the Treasury Department to thoroughly and impartially investigate the condition of this industry, and also the assistance rendered by Hon. John Dalzell, of Pennsylvania, who in his speech in the House on June 16, furnished a list of tin-plate works. From these sources, it appears that there are forty-two establishments in operation or preparing to make tin and terne plate in the United States. Below is the list[1] as furnished by Colonel Ayer.

In addition to these works, and since this list was prepared, the managements of some of the large steel rail-mills have taken steps to annex tin-plate producing-capacity, and the writer has seen solicitations for orders from some of these concerns, agreeing to furnish plates within three or four months. As to the actual amount of capital invested in these new works, authorities differ. This, however, is immaterial matter at present.

The following figures show the actual production of tin and terne plate in the United States for the times named:

		Pounds.
Quarter ending September 30, 1891,	Tin-Plate	152,489
	Terne-Plate	674,433
		826,922
" " December 31, 1891,	Tin-Plate	215,911
	Terne-Plate	1,193,910
		1,409,821
" " March 31, 1892,	Tin-Plate	1,099,656
	Terne-Plate	1,904,431
		3,004,087
" " June 30, 1892,	Tin-Plate	3,000,000
	Terne-Plate	5,230,751
		13,646,719

The claim made by those antagonistic to the industry is that substantially all the tin and terne plate used in the United States is imported. The figures for a part of this period seem to justify the statement.

For quarter ending September 30, 1891, imports including taggers' tin, were 44,416,504 pounds. For quarter ending December 31, 1891, 59,747,916 pounds. For quarter ending March 31, 1891, 139,921,470 pounds, but the tin-plate manufacturers defence is that the industry was only in its swaddling-clothes, and that later results should be looked to.

During the four quarters above referred to the quantity of black-plate produced in the United States by quarters was as follows:

Quarter ending	Pounds.
September 30, 1891	785,547
December 31, 1891	1,200,661
March 31, 1892	2,132,082
June 30, 1892	5,178,263
Total	9,296,553

From these figures it appears that sixty-eight per cent of the tin and terne plates made in the United States for the year mentioned were made from American black-plate.

Production, Tin and Terne Plates, fiscal year ended June 30, 1892, pounds	13,646,719
Total production fiscal year ended June 30, 1892, including manufactures from American sheet iron or steel, tinned or terne-coated, about, pounds	20,000,000
Estimated production Tin and Terne Plates, fiscal year ending June 30, 1893, pounds	100,000,000
Estimated annual rate of production, close of fiscal year ending June 30, 1893, pounds	200,000,000
Estimated investment, buildings and plant, close of fiscal year ending June 30, 1893	$5,000,000

The estimates as to annual productive capacity are unfortunately vague and only approximate; they range from 250,000,000 to 400,000,000 pounds. Work is being prosecuted on upwards of twenty establishments. With a consumptive demand of something under 700,000,000 pounds, it can be seen that commendable progress has been made during the twelve months' existence of the industry.

The official returns of the British tin-plate exports show that

[1] LIST OF MANUFACTURING COMPANIES OF TIN AND TERNE PLATES IN THE UNITED STATES, APRIL 23, 1892.

NOTE. — *a*, in actual operation; *b*, building; *e*, enlarging works; *f*, making or preparing to make black-plates; *o*, organized only.

American Tin and Terne Plate Co., *a*	Philadelphia, Pa.
American Tin-Plate Co., *b*	Elwood, Ind.
Anderson Tin-Plate Co., *a*	Anderson, Ind.
Apollo Iron and Steel Co., *f a e*	Apollo, Pa.

[REVISED LIST OF FIRMS OR COMPANIES ENGAGED IN TIN AND TERNE PLATE MANUFACTURING, AUGUST 15, 1892.]

NOTE. — *a*, producing; *b*, building; *e*, enlarging; *s*, production suspended; *t*, making or preparing to make black plates.

NOTE. — From the following list are omitted the names of all firms or companies who had not begun actual building operations, August 15, 1892.

A. A. Thomson & Co., *a*	New York, N. Y.
Aliquippi Tin-Plate Co., *b*	Aliquippi, Pa.

during the first six months of 1888 exports were 314,549,760 pounds; for the same time in 1889, 402,082,240 pounds; same time in 1890, 311,420,480 pounds; same time in 1892, 320,367,040 pounds. The figures for the first half of 1891 do not bear any relation to the question, as tin-plates were rushed-in to escape the higher tariff duties to be imposed July 1, 1891.

The above figures really prove nothing more than that the industry on this side is not yet in a position to materially affect the market. The production of about eleven million pounds of the product during the first half of this year, with a consumptive demand of about 340,000,000 pounds, is certainly not sufficient to restrain importations, especially when an uncertain portion of this output is of foreign black-plates. The actual home production of tin-plate — that is, of plate made from American-made plates — is relatively light, of course, and herein lies the argument or occasion for all of the clamor and denunciation heard. Because only 11,000,000 pounds are made during the first half of this year, of which, perhaps, one-half was from imported plates, the extravagant inference is drawn that the works now in operation, and the 52 rolling-mills ready to make plates, will not take advantage of the exceptional opportunities offered by the tariff to make money. The fact is, that not since war times, when military exigencies demanded the rapid production of war material and equipment, has there been witnessed such a spectacle as is now presented in over one hundred concerns, which are willing to join in the effort to enter upon the production of material for tin-plate and for coating it.

Among the mills now rolling black sheets are the Cannonsburg Iron and Steel Works, Pittsburgh, the United States Iron and Plate Co., Demmler, Pa., the American Tin-Plate Co., Cincinnati, Ohio, P. H. Laufman & Co., Apollo, Pa., Wallace Banfield & Co., Irondale, Ohio, the American Tin-Plate Co., of Elwood, Indiana, Marshall Bros., Philadelphia, Pa. and the Blairsville Rolling Mill, Blairsville, Pa.

New works under erection for the rolling of black-plate are Hughes & Patterson, Philadelphia, Pa., E. Morewood & Co., Elizabethport, N. J., and at Gas City, Indiana, (both works will use imported plates until rolling-capacity is put up,) the Falcon Iron and Nail Co., Niles, Ohio, the Cumberland Steel and Tin-Plate Co., of Cumberland, Md., and the New Castle Steel and Tin-Plate Co., of New Castle, Pa.

In interviews with iron and steel manufacturers it is found that very much depends as to the future investment of capital in the making and coating of plates on the outcome of the autumnal presidential election. The sentiment among manufacturers is that if four years more adhesion to existing policy can be assured, that many works will be put into shape for making and coating plates, and a large amount of capital invested in this industry.

If there were any occasion for the continuation of the importation of plates, then some reason might exist for the assertion that the industry is a myth, to use a favorite term of hostile critics. But there is nothing to be gained by such importations. American mills can, under existing duties, turn out as good, and in several authenticated cases better, plates than can be, or at least *have been* furnished from abroad. In short, American makers of tin and terne plates have already proved by their output that the question of meeting the entire American demand is only a question of time to build mills and equip them, and they are going about it with surprising dispatch in a score or more of localities between Philadelphia and St. Louis. Those who write that dependence upon foreign plates will continue to be a feature of the trade, have no personal knowledge of what has been going on among the rolling-mill interests. Reliance on foreign plate is a temporary necessity; works to produce plates could not spring up by magic

Britton Rolling-Mill Co., *f b*	Cleveland, O.
Blairsville Rolling-Mill and Tin-Plate Co., *f b*	Blairsville, Pa.
Cincinnati Corrugating Co., *a*	Piqua, O.
Cleveland Tin-Plate Co., *a*	Cleveland, O.
Coates & Co., *f a*	Baltimore, Md.
Columbia Tin-Plate Co., *a*	Piqua, O.
Corning Steel Co., *f b*	Hammond, Ind.
Cumberland Rolling-Mill and Tin-Plate Co., *f b*	Cumberland, Md.
Emberville Iron and Tin-Plate Co., *o*	Emberville, Tenn.
Falcon Iron and Nail Co., *o*	Niles, O.
Griffiths & Cadwallader, *a*	Pittsburgh, Pa.
Iron Clad Manufacturing Co., *a*	New York, N. Y.
John Hamilton, *a*	Pittsburgh, Pa.
Keystone Tin-Plate Co., *a*	Philadelphia, Pa.
Kieckhefer Bros. & Co., *o*	Milwaukee, Wis.
Lewiston Tin-Plate Works, *f b*	Joliet, Ill.
Marshall Bros. & Co., *f a*	Philadelphia, Pa.
Matthai, Ingram & Co., *a*	Baltimore, Md.
McDaniel, Harvey & Co., *o*	Philadelphia, Pa.
Merchant & Co., *a*	Philadelphia, Pa.
New Philadelphia Iron and Steel Co., *o*	New Philadelphia, O.
N. & G. Taylor Co., *f a e*	Philadelphia, Pa.
Norton Bros., *f a e*	Chicago, Ill.
New Castle Tin-Plate Co., *f b*	New Castle, Pa.
P. H. Laufman & Co., *f a e*	Apollo, Pa.
Pioneer Tin-Plate Co., *o*	Joliet, Ill.
Pittsburgh Electro-Plating Co., *a*	Apollo, Pa.
Pittsburgh Tin-Plate Works, *f a e*	New Kensington, Pa.
Record Manufacturing Co., *a*	Conneaut, O.
Savernake Tin-Plate Co., *o*	Milford, Va.
Scott & Co., Jas. B., *a*	Pittsburgh, Pa.
St. Louis Stamping Co., *f a e*	St. Louis, Mo.
Somerton Tin-Plate Works, *f b*	Brooklyn, N. Y.
Union Tin and Terne Plate Co., *o*	Allegheny, Pa.
U. S. Iron and Tin-Plate Mfg. Co., *f a e*	Demmler, Pa.
Wallace Banfield & Co., *f a e*	Irondale, O.
Welsh American Tin-Plate Co., *o*	Philadelphia, Pa.
Western Tin-Plate Co., *o*	Joliet, Ill.
William T. Simpson & Co., *a*	Pittsburgh, Pa.

Number of Companies organized, April 23, 1892	43
Number of Companies manufacturing, April 23, 1892	26
Number of Companies building, April 23, 1892	8
Number of Companies operations not begun, April 23, 1892	10
Number of Companies enlarging works, April 23, 1892	8
Number making or preparing to make black-plates, Apr. 23, '92	17

Total estimated investment.....$3,193,000.

Total estimated yearly capacity.....230,000,000 pounds.

American Stamping Co., *b*	Brooklyn, N. Y.
American Tin-Plate Co., *a e l*	Elwood, Ind.
American Tin-Plate Machine and Mfg. Co., *a*	Philadelphia, Pa.
American Tin and Terne Plate Co., *a*	Philadelphia, Pa.
Anderson Tin-Plate Co., *s*	Anderson, Ind.
Apollo Iron and Steel Co., *a l*	Apollo, Pa.
Britton Rolling-Mill Co., *b l*	Cleveland, Ohio.
Blairsville Rolling-Mill and Tin-Plate Co., *b l*	Blairsville, Pa.
Cincinnati Corrugating Co., *a*	Piqua, Ohio.
Cleveland Tin-Plate Co., *a*	Cleveland, Ohio.
Coates & Co., *a l*	Baltimore, Md.
Columbia Tin-Plate Co., *a*	Piqua, Ohio.
Corning Steel Co., *b l*	Chicago, Ill.
Cumberland Rolling-Mill and Tin-Plate Co., *b l*	Cumberland, Md.
E. Morewood & Co., *b l*	Gas City, Indiana.
Falcon Iron and Nail Co., *b l*	Niles, Ohio.
Griffiths & Cadwallader, *a*	Pittsburgh, Pa.
Gummey, Spering & Co., *a*	Philadelphia, Pa.
Hughes & Patterson, *b l*	Philadelphia, Pa.
John Hamilton, *a*	Pittsburgh, Pa.
Kahn Bros., *a*	New York, N. Y.
Keystone Tin-Plate Co., *s*	Philadelphia, Pa.
Marshall Bros. & Co., *a e l*	Philadelphia, Pa.
Matthai Ingram & Co., *a*	Baltimore, Md.
McKinley Tin-Plate Co., *a*	Wilkinsburg, Pa.
Merchant & Co., *a e*	Philadelphia, Pa.
Morewood Tin-Plate Manufacturing Co., *b*	Elizabethport, N. J.
N. and G. Taylor Co., *b*	Philadelphia, Pa.
Norton Bros., *a e l*	Chicago, Ill.
New Castle Tin-Plate Co., *b l*	New Castle, Pa.
P. H. Laufman & Co., limited, *a e l*	Apollo, Pa.
Pittsburgh Electro-Plating Co., *a e*	Apollo, Pa.
Pittsburgh Tin-Plate Works, *b*	New Kensington, Pa.
Record Manufacturing Co., *a e*	Conneaut, Ohio.
Jas. B. Scott & Co., *a*	Pittsburgh, Pa.
St. Louis Stamping Co., *a e l*	St. Louis, Mo.
Somerton Tin-Plate Works, *b l*	Brooklyn, N. Y.
U. S. Iron and Tin-Plate Mfg. Co., *a e l*	Demmler, Pa.
Wallace Banfield & Co., limited, *a e l*	Irondale, Ohio.
W. H. Edwards, *a*	Norristown, Pa.

Total number of companies, August 15, 1892	42
Number of companies manufacturing, August 15, 1892	26
Number of companies building, August 15, 1892	14
Number of companies production suspended, August 15, 1892	2
Number of companies enlarging works, August 15, 1892	10
Number of companies making or preparing to make black-plate, August 15, 1892	18

upon the signing by the President of the act creating the industry, but those familiar with the facts know there is a scramble among manufacturers to get ready to make plates. A tinning plant is comparatively inexpensive, and can be quickly put up; but the equipment of a mill to roll plates is costly, and requires time and skill to put it in operation. The establishment of this industry need not be questioned when tariff duties make it possible. There is no reason whatever why, under duties, it should not thrive. There is nothing mysterious or difficult in the manufacture and operation of machinery to make plates, or in dipping them in molten metal when made. This is all there is in tin-plate manufacture. It will not do to assert that American ingenuity and skill are unequal to the task of producing a billet, rolling it into plate of required gauge, and then coating the plate, light or heavy as required, in a cast-iron pot of molten metal.

What has been done in this direction? There are at present fifty-two mills in the United States rolling plate, or ready to roll it. There are other works, some of them very large, having equipments for this special work put in. The managers of these fifty-two establishments are not dreaming.

The cost of tin and terne plates has been advanced, in some remote localities, as much as a dollar a box over old prices, and much hue and cry is made over this inevitable result of the transplanting of the industry from one continent to another.

The following figures for coke plates show the wholesale tide-water quotation for certain brands two years ago and now.

	Price, August, 1890.	Price, Sept. 8, 1892.
I. C. 20 x 28 charcoal terne:		
M. F	$13.75	$16.00
Worcester	9.60	11.40
Dyffryn	9.10	11.10
Alyn	8.90	10.65
S. T. P	9.00	10.75
Dean	9.00	10.80
Mansel	8.90	10.60
Abercarne	8.90	10.65
D. R. D. grade	8.80	10.55
I. C. 14 x 20 coke tin:		
Bessemer steel	4.55	5.25
I. C. 14 x 20 charcoal tin:		
Melyn grade	5.55	6.40
Calland grade	5.40	6.40
Grange grade	5.00	5.85
Allaway grade	4.85	5.70

It should be remarked concerning the higher prices ruling that every possible advantage of consumers has been taken by distributors, especially at points more or less distant from ports of entry.

It is represented that the advances will be maintained, and that the price will remain as much higher than the former price as the increased duties will allow. The analogies of logic are against this assumption, and the history of the American economic policy contradicts the supposition or deduction that the multiplication of works and the expansion of output will not be followed by cheapening prices. The whole theory on which tin-plate legislation is based is that prices will decline under the competition that will inevitably arise under the strong inducements to manufacturers held out by the 2.2 cents per pound tariff. The 1.65 cents duty on black-plates is also believed to be sufficient to stimulate mill capacity, and enable the two branches of this new industry to work hand-in-hand.

Then there is the cry of "combination." While trembling over this possibility, it should be remembered that there are between four and five hundred rolling-mills in the United States, all of them hungry for more work; that there is an abundance of raw material and skilled labor at hand. In other words, there are too many possible competitors in both branches, to make combination possible. Of these mills eighty are now rolling sheet-iron which with very little adaptation can turn out sheets for coating.

The fact has already been brought out, that American makers are turning out tinned plates that are more especially adapted to certain requirements of this market than any that have ever been inported. The reasons are: the material is better, finer; more care is taken in rolling; sometimes finer fuel is used. Then in the tinning operation the coating is made light or heavy to suit, and is more evenly distributed. The foreign makers, having had a monopoly for so long, became careless or indifferent. Already radical changes have been introduced in American mills in the various stages of manufacture and coating. Some of the labor heretofore done slowly and irregularly by hand is now being done expeditiously and with mechanical exactness by machinery.

It would be untrue and unfair to say that some disadvantages will not be suffered through the temporary enhancement of prices. The canning interests, which use one-half of the tin-plate imported, complain that if prices are enhanced to the extent of the duty, they will pay several millions of dollars a year more for their cans, and, as they argue, suffer in reduced business. The farmers who raise the products which are canned, will, it is argued, suffer from lower prices, while the consumer will suffer from higher prices. Some of these inferences, as experience shows, are only theoretical, and look far worse than they will turn out to be. The assumption that higher duties enhance prices to that extent has occasionally been found to be true; but in the great majority of cases competition has played havoc with the theory and its conclusion.

It is not the purpose of this statement to present the matter from the standpoint of an advocate, — nor of one hostile to the industry; it is rather difficult, however, to avoid the outward appearance of one-sidedness. The tone of the articles written by most of the hostile newspaper writers is that of unfairness. They show a carping spirit, — a disposition to belittle or malign, rather than clearly and without prejudice to present facts, developments, and reasonable probabilities. The great fear seems to be that another highly-protected American industry is about to be tied around our necks; that permanently higher prices are hereafter to be paid for home-made tin-plate; that heavy importations will continue, and that the production of American-made plates will never reach important proportions. Without departing from the subject, it might be remarked that a very few years ago the idea of making armor-plates for warships in this country was ridiculed on all sides. Recent tests show, however, that the American-made armor-plate equals, if not excels the finest product of foreign workshops, and at about the same cost. Even the manufacture of ordinary sheet-iron was looked upon as beyond the skill of the American rolling-mill man, thirty years ago. It is dangerous to take the position that the only skill equal to the task of producing and tinning plates is to be found in Wales. Welshmen are flocking to this side; the best Welsh appliances are to be found in some of our works already, — while the improved machinery and appliances and methods now being introduced, point to the establishment of this industry on a basis much superior to that which it ever reached abroad.

Something could be said against our exclusive dependence upon foreign makers, were it necessary to seek support for our independent attitude. Their monopoly led to more or less indifference and poor workmanship, as well as delays of an annoying character at times in the correction of errors. It is not easy to discover good reasons or arguments why the 65,000,000 people on this side of the Atlantic should continue to depend on 97 Welsh tin-plate works for such an essential article as tin-plate, especially as about all that is needed to complete our present facilities for its manufacture, is a few more rolls, and a few cast-iron pots. A very important matter, after all, to be considered in voluntarily cutting off our foreign supplies — in a sense — is, can we rely upon a reasonably early restoration of former prices, to say nothing of lower prices than formerly ruled? That is the question which concerns every user. Despite the strong and plausible arguments used, pointing to lower prices under competition, the average buyer and user feels some doubts, and in his uncertainty sometimes wishes he could have things again as they were. He argues that when prices advance, it is uncertain when they will decline. From such considerations, there is a feeling of nervousness among a great many users of tin and terne plates, which is sometimes supplemented with political opinions and prejudice.

It is surprising to the average reader how persistently the hostile press reiterates the statement of small output of American tin-plate. These editors seem to overlook the fact that the industry is but little over a year old; that machinery for special purposes cannot be designed, erected and tested in a day, a week or a month.

The Welsh manufacturers have been appealed to in vain, year after year, by American importers, to pay more regard to the suggestions and requirements of American consumers;

but they have disregarded all appeals, and have gone on in their carelessness and indifference, sending out defective stock for good stock, and charging high prices for poor stock. This is made evident by their reduction in prices amounting to over one dollar per box, since the new order of things went into effect. Since that time, a struggle has set in, in the direction of the greatest possible deterioration of goods. This is the last effort to hold the trade that has been snatched from them by a legislative enactment.

The writings of the opponents of the tin-plate industry which have for weeks past been appearing in hostile journals, have been carefully studied to find some justification for the position taken by the writers. The animus of all these articles seems to be a hostility to any industry that rests on protection. The ability of American manufacturers to make tin-plate is not considered; the simplicity of the process is not referred to. The one fact which is flaunted before the eyes of readers is, that the product of American mills, up to this date, is trifling, as compared with the total requirements.

The only answer to this is, that the owners of over one hundred mills are preparing, as fast as money, labor, skill and energy can prepare, to roll plate of every quality and thickness wanted in the United States, and that within twelve months, in all probability, the importations of tin-plate will have fallen off very largely.

At this time, "30" black-sheets are being turned out. 28's are now being made successfully, and equal to the best imported. The "30" black-sheets are being turned out in three mills, and the product is on the market at the present time. The production of these finer plates for roofing on a large scale is simply a matter of a little time, and a little extra effort. The matter has passed beyond the experimental stage. These grades complete the list, and give to the American buyer every grade and quality of tin-plate, from the lowest to the highest, American made.

The following figures furnished by the Treasury Department show the production in tin and terne plate in detail for quarter ending June 30:

Producers.	Where Located.	Pounds.
A. A. Thomson & Co.	New York, N. Y.	24,805
American Tin and Terne Plate Co.	Philadelphia, Pa.	264,000
American Tin-Plate Co.	Elwood, Ind.	56,597
Anderson Tin-Plate Co.	Anderson, Ind.	161,416
Apollo Iron and Steel Co.	Apollo, Pa.	1,020,786
Cincinnati Corrugating Co.	Piqua, O.	90,372
Cleveland Tin-Plate Co.	Cleveland, O.	190,791
Coates & Co.	Baltimore, Md.	155,000
Columbia Tin-Plate Co.	Piqua, O.	207,700
Griffiths & Cadwallader	Pittsburgh, Pa.	43,000
John Hamilton	Pittsburgh, Pa.	230,367
Kahn Bros.	New York, N. Y.	138,240
Keystone Tin-Plate Co.	Philadelphia, Pa.	120,000
Marshall Bros. & Co.	Philadelphia, Pa.	335,170
Matthai, Ingram & Co.	Baltimore, Md.	179,125
Merchant & Co.	Philadelphia, Pa.	587,977
McKinley Tin-Plate Co.	Williamsburg, Pa.	48,000
Norton Bros.	Chicago, Ill.	140,104
P. H. Laufman & Co.	Apollo, Pa.	260,564
Pittsburgh Electro-Plating Co.	Apollo, Pa.	120,540
Pittsburgh Tin-Plate Works.	No. Kensington, Pa.	237,500
Record Manufacturing Co.	Conneaut, O.	358,100
James B. Scott & Co.	Pittsburgh, Pa.	52,990
St. Louis Stamping Co.	St. Louis, Mo.	1,965,470
U. S. Iron and Tin-Plate Mfg. Co.	Demmler, Pa.	531,313
Wallace Banfield & Co.	Irondale, O.	735,764
Total production for quarter		8,255,691

The question of tin itself has not been mentioned: considerable opposition to the new industry is based upon the alleged mythical character of the promised supply. But it is not essential to the economic production of tin-plate here, that the tin should be found in this country. The cost of tin at New York is very little, if any, more than in London or Swansea. The supplies come mostly from remote quarters of the globe; the Cornwall deposits have long since ceased to be the main dependence; one country can obtain its supplies at about the same price as another. As to the existence and productivity of American tin-mines, there is not much doubt expressed; but the developments have not been such as to justify mathematical statements. Strongly capitalized companies, controlled and operated mostly by Englishmen, have been pushing ahead, and spending money with a lavish hand in at least two mines of the United States, and their faith in their property ought to be sufficient for us at present. It is probable that for some time to come, our supplies will come from abroad, a fact which need not hamper the progress of the industry in the least. The Harney Peak Tin-Mining Company, with a capital of $15,000,000, are working lodes in the Black Hills extending for a distance of thirty miles, where in some instances the outcrop of tin ore extends from two to three thousand feet.

An Englishman (Lord Thurlow) whose word goes in his native country, recently sailed for England after making a most exhaustive investigation of the Harney Peak property of which he is a managing director.

"This country," Lord Thurlow is reported to have said, "will not need to import any tin two years hence, for our mines will produce enough tin to last for centuries. The production will save £15,000,000 a year, which this country is paying for tin-plate. This enormous sum will go into the hands of the people of this country.

"The company of which I am chairman and in which New York or American capitalists are equally interested, has already built two of the largest and most thoroughly equipped mills in the world. Each has a capacity to produce 500 tons of tin a day, and this will be increased to 3,000 tons daily should necessity demand it.

"Two or three other mills of similar proportions have been planned. We expect to begin to work the two mills already constructed by October 1, and to put tin on the market in commercial quantities. I have inspected tin-mining properties in various countries, but I never yet saw such resources as I found in Dakota."

The difficulty of reaching a definite conclusion regarding the probability of the production of tin from American deposits is increased by the flatly contradictory report of Professor Vincent, to the stockholders of the Harney Peak Company and which has resulted in an apparent change of policy, to the extent of the perhaps temporary withdrawal of the prospectus of the company controlling the Harney Peak property. Be Lord Thurlow or Professor Vincent right, it matters not, as the production of tin on this side has no connection with the establishment or maintenance of a tin-plate industry.

Mr. J. H. Rogers, Chairman of the Tin-Plate Makers' Association of Wales, who very recently made a tour of the tin-plate works and tin-plate rolling-mills of the United States, stated to his friends and associates in England and Wales on his return home, that "the manufacture of tin-plates is very rapidly taking root in the United States and some very magnificent plants have been erected; one works I visited was the finest I ever saw." On the subject of wages and cost of living Mr. Rogers said he believed Welsh workmen would be better off because the necessities of life were very cheap on this side.

A late telegram from abroad is perhaps the best refutation of the allegations of hostile critics as to our dependence on foreign manufacturers of tin-plate. The cable states that the exports of tin-plates for the past twelve months were 238,365 tons less than for the previous twelve months, and that 10,000 men have been discharged from the tin-plate industry. The Welsh manufacturers are now discussing the situation and have not at present writing been able to formulate any plan for the protection of their imperiled interests.

One more feature remains to be spoken of, the possibility of a combination on both sides of the water by which the cheaper black plates of Welsh mills might be imported for coating on this side, the same combination securing control of mills on both sides.

As to this, the facts to-day are these: The cost of foreign plate is about two cents, which with duty added is 3.65 cents, as against about three cents the cost of similar plates at American mills, leaving an advantage in favor of the American manufacturer of seventy-five cents per box. The combination is not apparent, on the surface, which could offset this difference in price, but such remarkable achievements have been performed by associated capitalists in other fields, that the possibility of similar inroads on individual enterprise has been spoken of as a contingency worth a passing notice. As long as foreign sheets cost more than twenty-five dollars per net ton to produce and deliver F. O. B., the American maker will probably feel free from such dangers.

Among the works deserving of special mention in this connection are the Apollo Works of Apollo, Pa., Merchant & Co. and N. & G. Taylor Co., of Philadelphia, Norton Bros. of Chicago, Record Mfg. Co., Kensington, Pa., St. Louis Stamping Co. and Wallace Banfield & Co.

COMPARATIVE MUNICIPAL BUILDING LAWS.—XIV.

[*Note:*—In these tables bracketed letters invariably refer to preceding passages in the same column.]

Roofs and Roofing.

Boston:—*a. On First and Second Class Buildings*, built over 60′ high and to be used for mercantile, manufacturing and storage purposes, or as theatre, hotel, apartment-house or office-building, no roof shall have a pitch of over 20°.

b. Roofs shall be constructed to bear safely, in addition to weight of material, twenty-five pounds per square foot of area covered, with proper allowance for horizontal wind-pressure of thirty pounds per square foot.

c. On Second Class Buildings, the roof shall be covered with tin, iron, slate, gravel, composition or like substantial roofing material not readily inflammable.

d. If such roof comprises more than one story, or is more than 20′ in height in any part from nearest floor, such roof shall be constructed as required for *First Class Buildings* (*i. e. fireproof construction throughout*).

e. No staging or stand for observation purposes shall be constructed or occupied upon the roof of any building.

Baltimore:—All buildings fronting upon a public street, lane or alley, covered with tile, slate, zinc, tin or copper, shall have inserted in rafters near eaves, iron pins not more than 12″ apart, not less than 4″ long above roof, with iron bars to prevent fall of snow or ice.

Tops and sides of every dormer window shall be covered with slate, tin, zinc, iron, copper or other equally fireproof material.

Brooklyn:—*On Brick and Stone Buildings*, roofs and the tops and sides of dormer windows and upper surface of wooden gutters shall be covered with slate, tin, zinc, copper or other fireproof material, approved by the Commissioner.

Steeples, cupolas and spires of churches and public buildings shall be covered with fireproof material.

Charleston:—Shall be covered with incombustible materials.

Chicago:—*f.* Roofs and domes of Business Buildings shall be built of incombustible materials.

g. Roofs having a greater inclination than 60° shall be fireproofed by coating the sheathing at least 1″ deep with firm plaster or cement immediately under the incombustible weather covering. Strips 1″ square may be fastened to sheathing to receive fastenings of slate, tile or metal roofing, with cement plastering flush with these strips.

h. Slate covering of roofs having less inclination than 65° and the roofing of spires and similar constructions, may be fixed directly to wooden sheathing or lath, *provided* each course of slating is pointed with cement in joints as far as joints are covered with succeeding course, also that a bed of similar cement shall be spread on sheathing at upper end of slate, at least 5″ wide, flush with course already laid and forming bed for succeeding course of slate. When slates are secured to laths the entire under side of slate shall be pointed with cement mortar in best manner.

i. The weather covering of all roofs, *except of cottages not over 16′ high above sidewalk grade*, shall be made of incombustible material.

j. Composition roofs shall be made of not less than three-ply No. 2 felting, well cemented together, covered with distilled composition and clean screened lake gravel well bedded.

Roofs of buildings more than two stories high, shall have four-ply felting to be swept off and have a second coating of distilled composition and similar gravel.

The pitch of composition roofs shall not exceed 2″ to 1′.

k. No uncovered tar, composition, resin, felt or woodwork shall in any way be exposed on any roof or its appendages.

Cincinnati:—*l.* Weather coverings of roofs within fire limits shall be of incombustible material.

Cleveland:—(*l*).

Denver:—*m.* The roof of every brick building within the inner fire limits, shall be covered with incombustible material; shall be constructed not more than one story high, nor more than 20′ in height from upper floor to highest part of roof, unless made of incombustible material throughout.

n. The roof of every building shall be kept in good repair.

Detroit:—Roofs shall be covered with tile, slate, metal, composition and gravel or other fireproof material.

District of Columbia:—(*m*).

Kansas City:—(*n*).

Louisville:—If roof is damaged more than half its value it shall be taken off and the new roof shall have incombustible covering.

Memphis:—Any roof having pitch of over 60° (except on wooden building or on dwelling not exceeding 36′ in height) shall be constructed of iron rafters and lathed with iron on inside and plastered or filled-in with fireproof material not less than 3″ thick and covered with metal, slate or tile.

Milwaukee:—

Minneapolis:—Weather covering of all roofs, cornices, gutters, eaves and parapets shall be made of incombustible material. (*k*).

Nashville:—"Buildings to be covered with iron, copper, slate or tin."

Newark:—All buildings and tops and sides of dormer windows, scuttles, gables, pediments and cornices to be covered and roofed with fireproof material.

No Mansard or other roof forming one or more sides of a story, shall be placed on any dwelling more than 55′ high (measured from curb to highest point of roof), nor put upon any building other than dwelling, nor put upon any building on a street less than 50′ wide, unless constructed of fireproof material.

New Orleans:—Brick or stone dwelling in fire limits shall have roof, top, and sides of dormer windows covered with slate, iron, zinc, tin or other fireproof material.

No steeple, spire or tower shall be erected on the top of any building unless covered with incombustible material.

New York:—Planking and sheathing of roof shall in no case extend across front, rear, side, end or party wall.

Every building and the tops and sides of dormer windows thereon and the roofs of piazzas shall be covered and roofed with slate, zinc, copper, iron or such other fireproof material as the Superintendent of Buildings, under his certificate, may authorize.

Outside of frames of dormer windows shall be of fireproof material.

A Mansard or other roof having a pitch of more than 60°, *except upon a wooden house, or upon a dwelling less than 36′ in height*, shall be constructed of iron rafters and lathed with iron on inside and plastered, or filled-in with fireproof material not less than 3″ thick and covered with metal, slate or tile.

Coverings of tanks and for machinery or elevators and all bulkheads shall be constructed of fireproof material.

Omaha:—(*g*); (*h*).

The roof of every brick building within fire limits shall be covered with incombustible material, (*k*).

Philadelphia:—

Pittsburgh:—No person shall be permitted to extend roof over street farther than necessary for a reasonable cornice.

Providence:—No roof having a pitch of more than 10° with the horizon, shall be built more than 20′ in height from top of street walls, nor so as to make total height of building more than 55′, except it be of non-combustible material.

St. Louis:—All roofs more than 45′ above sidewalk shall be made and covered with non-combustible material approved by Commissioner.

No roof shall be built more than one story high, nor more than 20′ in height from upper floor of building, unless constructed throughout of fireproof material.

No Mansard shall be of wood more than 45′ above pavement.

All slate roofs shall be laid on battens not over 2½″ wide, and the slate between battens shall be rendered with one coat of plaster.

San Francisco:—The covering of all roofs shall be made of metal, or asphaltum covered with gravel or some fireproof composition.

A Mansard or roof having a pitch of 30° or more, on a brick building two stories or higher, shall be constructed as follows:

Rafters not less than 4″ thick, covered on outside with some fireproof material and on the inside lathed with iron laths and three coats of best lime mortar. If there is a level platform above sloping sides it shall have similar construction. Sheathing to receive fireproof material shall be first painted two coats of best fireproof paint.

The covering of all steeples, towers and turrets shall be of fireproof material.

Wilmington:—

Scuttles and Skylights.

Boston:—*a. All buildings more than 20′ high* shall have permanent means of access to roof from the inside.

b. All thin glass skylights upon roofs shall be covered by a wire netting when, in the opinion of the Inspector, such protection is needed. The opening shall be not less than 18″ by 30″.

Baltimore:—*c.* All buildings shall have scuttle frames and covers, or bulkheads and doors, covered with fireproof material, and opening outward.

d. Scuttles shall be at least 2′ by 3′, and provided with stationary ladder ready for use.

e. Bulkheads shall have stairs leading to roof protected by efficient guard or rail.

f. On tenement-houses, scuttles and bulkheads shall never be locked, but may be fastened on the inside by bolt or hook.

Brooklyn:—Every building shall have scuttle or place of egress on roof of proper size approved by Commissioner, with stairway or ladder ready for use. Scuttle frames and doors on brick buildings shall be made or covered with copper, zinc, tin or iron.

Charleston:—

Chicago:—*g.* All roofs shall be constructed so as to be reached by scuttle or by iron steps fastened to outside of outer wall.

h. Every scuttle shall be at least 20″ by 30″.

i. Frame and lid of scuttle shall be covered with metal.

j. Scuttle shall have stationary ladder.

k. All skylights exceeding 50 superficial feet shall have frame of sash constructed entirely of iron.

l. Glass in skylights (if not "prismatic lights") shall be protected by screens made of No. 10 or heavier wire; meshes not to exceed 1½″, such screen secured to sash and kept at least 4″ from glass.

Cincinnati:—*m. Buildings of Warehouse Class over one story high, and other buildings when required by Inspector*, shall have in roof scuttle frames and covers, or bulkheads and doors, not less than 2′ 0″ by 3′ 0″, made and covered with fireproof material, provided with iron ladders or stairs securely bolted to floor and frames, ready for use. Doors of scuttles and bulkheads shall not be locked, but must be fastened by movable bolts or hooks.

n. Skylights shall be protected by sufficient guard railing when so required by Inspector.

Cleveland:—(*m*); (*n*).

Denver:—*o. All brick buildings other than Dwellings two stories in height or over* shall have scuttle frames, (*d*) and covered bulkheads and doors on roof, made of or covered with incombustible material; (*e*); (*f*).

Detroit:—*Every block of two or more buildings more than one story high* shall have scuttle through roof of each building, with convenient stairway leading to it.

District of Columbia:—Each roof shall have a scuttle not less than 2′ by 3′, with step-ladder or flight of steps leading to it.

Kansas City:—*All brick buildings more than 20′ high* shall have scuttle frames and covers (*d*) or bulkheads and doors; (*e*).

Scuttle, covers, bulkhead and doors made of or covered with incombustible material. (*f*).

Louisville:—

Memphis:—*q.* All buildings shall have scuttles or bulkheads covered with fireproof material, with ladders or stairs leading thereto.

r. In tenement-houses, scuttles shall have stationary iron ladders leading to same ready for use. (*d*); (*e*); (*f*).

Milwaukee:—

Minneapolis:—*All buildings built of stone, brick or iron, and frame buildings with flat roofs two or more stories high*, shall have scuttle frames and covers, bulkheads and doors on roof, made of or covered with fireproof material. (*d*); (*e*); (*f*); (*k*).

Nashville:—All buildings shall have scuttle frames and doors (*d*), scuttle covered with metal.

Newark:—Every building shall have scuttle or door leading to roof, with stationary ladder placed so as to be easy of access.

New Orleans:—Buildings required by law to have fireproof roof shall have scuttle frames or doors covered with copper, zinc or iron.

New York:—(*q*); (*r*); (*d*); (*e*); (*f*).

All skylights of more area than 9 superficial feet shall have sash and frame constructed entirely of iron and glass.

Every fireproof roof shall have, besides the usual scuttle or bulkhead, a skylight or skylights of a superficial area equal to not less than one-fifth of the area of said roof.

The roof over hoistway, elevator or well-hole shall be covered with skylight of suitable size.

Omaha:—(*p*); (*d*) or bulkheads and doors (*e*), all covered with incombustible material.

Philadelphia:—

Pittsburgh:—Buildings shall have dormer windows, scuttles or trap-doors on roofs provided with ladder or steps.

Providence:—Buildings shall have scuttles (*d*) or bulkheads and doors, with stationary ladders or stairs leading to same, ready for use.

Skylights of buildings within the first building district and of buildings over 30′ high outside that district, except such as have shingled roofs, shall have frames and sash made of or covered with metal; glazed with glass not less than ¼″ thick, protected on outside by screen or cage made of No. 10 (or heavier) wire, with meshes not over 1½″, placed at least 4″ from glass.

St. Louis:—(*q*); (*d*).

All scuttle doors shall be provided with hinges or hooks.

s. Shall at no time be locked but may be fastened with movable bolts or hooks.

San Francisco:—*All store buildings more than one story high* shall have scuttle frames and covers, or bulkheads and doors, made of or covered with fireproof material. (*d*); (*e*); (*s*).

Skylights not enclosed with substantial railing at least 3′ high shall be protected by screens of No. 10 (or heavier) wire; meshes not more than 1½″, secured to sash and kept at least 4″ from glass.

Skylights exceeding 12 superficial feet placed on brick building shall be made of metal and glazed with glass at least 3-16″ thick.

Wilmington:—

Compiled by H. A. PHILLIPS.

ARCHITECTURAL SHADES AND SHADOWS.[1]—XV.

CHAPTER XI.

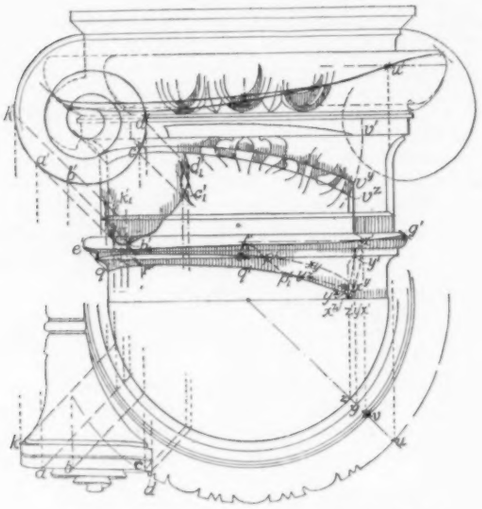


Fig. 139. Shades *and* Shadows on Front of Ionic Capital *from* Forum of Trajan.

General applications of rules, methods and principles given in preceding chapters. The French Envois de Rome as master-pieces of sciography. Discussion of Plate VII; shades and shadows on the front, side, and plan of Ionic capital; Treatment of ornament in general; analysis of the ove, and its line of shade; shade and shadow on lateral surface of volute. French traditions and Gothic forms; discussion of Piscina shown in Plate VIII; Gothic arch-mouldings by the slicing-method; the shadow in the bowl; general remarks on rendering with shades and shadows.

185. IN preceding chapters of this series on architectural shades and shadows, nearly all the principal geometric forms commonly occurring in architecture have been more or less systematically discussed, and many of the detailed applications of the general rules have been set forth and explained. No attempt has been made to furnish recipes for all possible cases, but only to lay down general principles and to illustrate their application to such typical problems as might suggest to the draughtsman the methods of procedure to be used in other cases. The promise was furthermore made to furnish plates from architectural drawings of high order, as illustrations of the value and beauty of the results secured by the proper and adequate rendering of the shades and shadows, and to explain briefly the methods by which these results were attained. The fulfilment of this promise, already too long deferred, is now undertaken, with the hope that the patience of the readers of preceding chapters still holds out, and that it may suffice for the perusal of this and the next chapter, which will be the final one.

186. Plate VII represents an Ionic capital from the Forum of Trajan in Rome, and is a much-reduced copy of a drawing by M. Girault, of the French Academy at Rome. The original was one of the *envois de Rome*[2] of its author, and illustrates very fairly the conscientious drawing and admirable rendering that usually characterize the *envois* of the "Pensionnaires" of the French Academy at Rome. The drawings they send back to the École des Beaux-Arts, representing fragments and restorations of antique buildings, are almost invariably models of strong and refined execution, of minute accuracy, and of complete presentation. Whether rendered in India-ink alone, or in color, they conform to and preserve the best traditions of the most advanced school of modern academic draughtsmanship. The example here presented, copied, as it is, on a much smaller scale, falls far short of the original in delicacy and perfection of rendering, but may help to convey to the reader, in spite of its imperfections, some notion of the care and pains which the most accomplished French draughtsmen will bestow upon a problem apparently so simple as the representation of an Ionic capital.

187. The example shown is given in plan, front and side elevation and section. The plan represents in a single drawing, horizontal sections taken at several different levels: the left-hand half showing the plan as seen from below the astragal, looking up: the upper half on the right, the same view, but with the section taken through the necking; while the lower right-hand quarter of the plan shows horizontal sections through the echinus, and through the eye of the volute. Of the two sections in the lower part of the plate, that on the left is double, being taken through the eye of the volute and through the middle *ove* of the echinus, while the opposite one on the right shows the "roll" or "baluster" of the volute cut transversely through the middle. Certainly it would be difficult to imagine a more complete presentation of the object, especially when it is added that the original is accompanied by almost innumerable measurements of micrometric exactness, taken at all possible levels and points of the original fragment of which the drawing is a restoration.

188. In attacking so intricate a problem as this, it is always best to begin with its simpler elements and proceed from these to the more complex. From the point of view of abstract logic one might reason that the first step should be the determination of all the lines of shade before any shadows are found. Such a procedure would however prove wasteful in actual practice, for this reason among others, that oftentimes the theoretical line of shade of one part of an object is lost in the shadow cast by another, so that its determination is wholly superfluous. It is far better to begin with such shades or shadows as can be easily and quickly drawn, as their determination often furnishes data very serviceable in subsequent and more difficult stages of the problem.

189. The cylindrical surfaces of the example before us being the simplest of all, first engage our attention, and the lines of shade upon the "corners" of the shaft and necking, and of the cylindrical "lips" of the volutes are drawn at once. Next, there is the shadow cast by the shaft (or necking) of the capital in the plan, which is limited by two lines at 45° across all the surfaces in light beyond (Rule III, §44). We may then find the shades and cast the shadows of the astragal, with its bead or torus and fillet, and of the fillet or band under the echinus, using the five-point method (Figures 93–96, §§115, 116, No. 755 *American Architect*). These operations naturally lead to the shadow of the volute on the necking, and this requires the finding of the line of shade upon the lateral surface or "baluster" of the volute, which may, in turn be followed by the casting of its shadow on the necking in side elevation. The shades and shadows upon the varied and complex surfaces of the carved egg-and-dart echinus are then drawn, by that mixture of careful study and guess-work based on experience, which must always play a considerable part in the solution of problems of this nature; and finally there remain the shadows of the several convolutions of the fillet of the scroll upon the intermediate concave surfaces, which are best drawn by means of slicing-planes perpendicular to the vertical plane; the slicing-sections or contours being drawn upon the elevation as though revolved down upon it around the traces of the slicing-planes as axes, the rays of light being then drawn at 36° 15′ to these traces, and the resulting points of shadow projected back upon the traces, forming points in the required lines of shadow.

190. For the draughtsman with some experience in problems of this sort, or thoroughly versed in the rules and methods already set forth in this series of papers, the above outline of the procedure actually employed in making the drawing will perhaps quite suffice. But there may be not a few who would encounter difficulties in

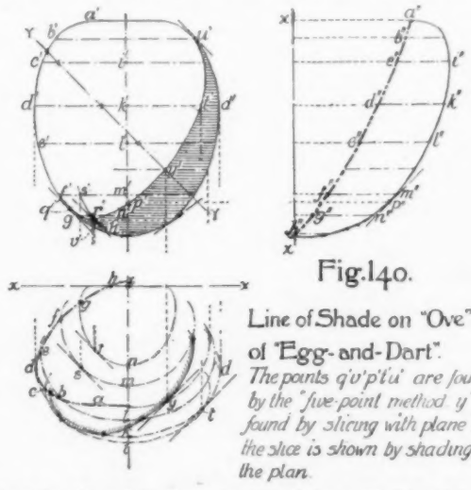


Fig. 140.

Line of Shade on "Ove" of "Egg-and-Dart".

The points q′o′p′t′u′ are found by the "five-point method" y′ is found by slicing with plane YY; the slice is shown by shading in the plan.

[1] By A. D. F. Hamlin, Adjunct Professor of Architecture in the School of Mines, Columbia College. Continued from page 166, No. 833.

NOTE.—[In view of the inconvenience of having to refer to back-numbers for explanations of the notation used in these papers, the following memorandum will be found of service.]

H P = horizontal plane of projection; *V P* = vertical plane of projection; *G L* = ground-line or horizon. Capital letters designate points and lines in space, small italics their horizontal projections, and the same accented or "primed," their vertical projections. Subscript figures indicate points of shadow; small figures above the line indicate points of shade. Greek letters (α, β, γ, θ, δ,) designate angles. The *diagonal* of a line or dimension is its length multiplied by $\sqrt{2}$. Shadows are indicated by vertical shading; shades by horizontal shading; shearing light by oblique shading parallel to the projections of the luminous ray.

[2] As there may be some reader or student unfamiliar with the meaning of this term, a word of explanation is in order. Every year the French Academy of Fine Arts awards in each of the departments of architecure, painting, sculpture, music, and engraving, a prize or scholarship called the *Grand Prix de Rome*. The winners of these prizes are maintained at the expense of the French Government during a course of foreign study and travel covering five years, of which three must be spent at Rome, in the "French Academy," and the other two at will. The original works, drawings, etc., sent back each year by the beneficiaries of the prize are called *Envois de Rome;* those sent by the winners in architecture being measured drawings and restorations of classic fragments or of ruins of antique buildings. These drawings are made to a large scale, are exceedingly elaborate and highly finished, and remain the property of the *Ecole* at Paris, where they are open to public inspection.

trying to follow out this line of operations, and who would appreciate a more detailed and minute exposition of the processes involved — not to say the involved processes — in the solution of this problem. Some may even take the pains and trouble of copying the outlines of the plate, and of endeavoring to find out for themselves its shades and shadows; a task very much to be commended to those who are sincerely desirous of mastering the subject thoroughly. For the benefit of such conscientious and ambitious readers the paragraphs that follow are intended. Others may find it convenient to skip at once to §211, which takes up the subject of the next plate.

191. Referring to Figure 139 and taking up the line of shade on the astragal by the five-point method, we draw the required line through e' where the 45° tangent touches the left-hand profile; through a second point (unlettered) where the 45° tangent touches the left-hand front corner section or profile (or through the left-hand front "corner" of the circle of revolution taken at the level where the line at 36° 15′ touches the extreme left hand profile) giving us the *lowest* point of shade; through f' on the axis at the same level with e'; through x' the right hand front corner of the "equator"; and through g' the point of 45° tangency on the upper part of the right-hand profile. The shadow of this line of shade on the fillet below is next drawn through the points of incidence shown by 45° tangents to the torus at its left-hand front corner section already drawn, and at its left-hand profile,[1] and through a point on the axis at the same level with the last named. The curve of shadow soon passes off the fillet, but were the latter wider, its further progress could be found accurately by means of slices, or approximately by locating its terminal point on the "corner" (prolonged) of the fillet at x_y, which is found by revolving down x' the "corner" of the line of shade of the torus or bead, around a centre on the axis of the column at the level of the equator (*i.e.* a trifle above f'). The resulting curve is the line $x\,y$.

192. A little more than half of the lower edge of the fillet being in light, casts its shadow on the shaft from q'[2] to p_1^1. If the whole were in light, its shadow would continue along the curve yz to the point y^z, where the "corner" y' of the fillet, revolved down around its centre o', would fall on the corner z' of the shaft. But p_1^1 is the shadow of p^1 the last point in the line of shade of the fillet; beyond this point the shadow on the shaft must be that cast by the line of shade of the torus or bead. It will be remembered that the shadow of this line of shade has been accounted for only as far as it casts its shadow on the fillet; of the remainder a part at least must cast its shadow on the shaft, beginning at p_1^1 and terminating at x^z, where the corner x' of the line of shade on the torus or bead, revolved down as before around its centre just above f', falls upon z', the corner of the shaft. The curve may be sketched-in free-hand with sufficient accuracy from p_1^1 to x^z.

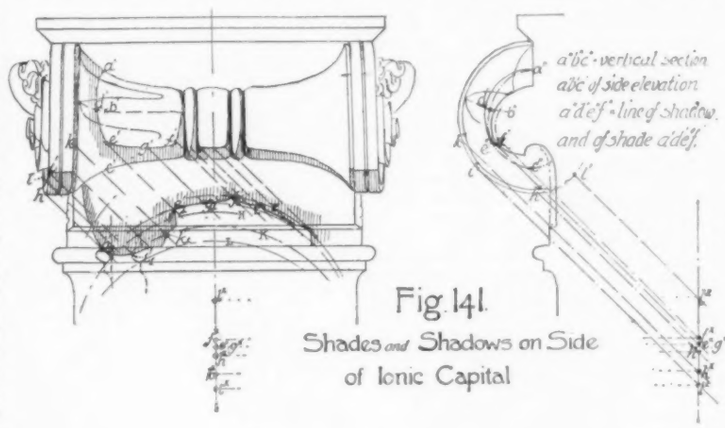


Fig. 141.

Shades and Shadows on Side of Ionic Capital

193. In the same way we draw the curves of the two shadows cast respectively upon the cylindrical necking, and upon the slightly larger cylinder representing the general surface of the carved decoration upon it, by the projecting fillet under the echinus. These two curves terminate at v^v and v^z found in the same way as x^v, y^z and x^z already described. Upon the ornament in relief we draw those portions of the upper curve which cross them, and upon the background the intervening portions of the lower curve. We shall find, however, upon drawing-in the shadows cast by the ornament itself on the background, that they obliterate or cover up nearly or quite half of the shadow of the fillet on the same background.

194. With reference to the shadows of and upon the minute and broken surfaces of carved decoration in general no rule can be laid down. In many cases they can only to be guessed at, and when the guess-work is founded on experience and knowledge it is often accurate enough for all practical purposes. But this is not always the case, especially in large and elaborate drawings. In these, "slicing" must be resorted to as far as possible, the contours of the slices being determined by a careful study of the modelling, in which auxiliary sections, taken parallel to the horizontal plane, may be used with success. The results are, of course, merely conjectural, unless the forms of the sections can be accurately determined by many and accurate measurements. They represent what the shadows *would be if* the carving were modelled as the draughtsman has assumed it to be. For this reason special care or special experience becomes necessary in such work; for, although errors in casting the shadows of carved ornament are not as obvious or easily detected as in the case of simpler geometric forms, they may give a wholly erroneous impression of the actual modelling and relief of the forms that cast them, and thus be the more deceptive because not obviously and demonstrably incorrect. In the original drawings of Girault the breaking up of the curve v^v of Figure 139 where it falls across the fluted surfaces of the anthemion and other parts of the ornament, has been treated with the greatest care and exactness of drawing as well as the shades and shadows of the carvings itself; a care and exactness which our small copy falls far short of adequately reproducing.

195. As we are occupied with this phase of the draughtsman's work, we will for a while leave aside the shadow of the volute on the necking, which is properly the next step in order according to the programme laid down in §189, and consider the echinus with its carved egg-and-dart ornament. If we suppose two tori having respectively the profile of the eggs or *oves* of this echinus, and that of the "shells" or "frames" of the *oves*, their profiles, coinciding in the upper part, would be as shown by the dotted lines within the right hand volute in Figure 139, and their lines of shade would be the curved lines shown in the same figure coinciding along the upper right-hand portion, but diverging below. These lines of shaft, easily formed by the five-point method, only serve to locate certain points of the required shade on the carved decoration, — those, namely, where the surface of the carving corresponds with that of the torus from which it was cut.

196. The "frames" or "shells" in the main retain the original surface of the larger torus intact, and the line of shade upon them is so much of the lower curve as lies upon their surface. Each *ove*, however, retains of the original surface of the smaller torus only its own profile or meridian element, so that the upper line of shade gives us but one point in the line of shade of the *ove*; namely, where it crosses its meridian or middle element. But it tells us nothing of the direction of the line of shade at that point, and as each *ove* stands in a different relation to the direction of the light from the others, it becomes necessary to work out carefully each line of shade separately, unless we are to content ourselves with hap-hazard guesses. And inasmuch as even the free-hand approximations and guess-work of the draughtsman should be founded on experience, it seems proper to enter with some detail into the study of the line of shade on the *ove*.

197. Figure 140 represents the central *ove* in front and side elevation and in plan. As its elements are not absolutely determined geometric forms, we are forced to assume them for the most part; but always in conformity to the known characteristics of the Roman *ove*, and to the few data we have. These are, its apparent contour in front elevation, and its meridian profile or section, which is that of the torus from which it is cut. The contour in front elevation is not, however, a plane curve, and must therefore be represented in side elevation not by a right line, but by a curve, which we assume to be slightly convex outwards. In order to draw it in plan, we may assume a reference plane, $x\,x$ parallel to $V'P$ and represent it in plan by the trace $x\,x$. We then locate each point (a, b, c, etc.) directly under its vertical projection (a', b', c', etc.) and at the same distance from $x\,x$ as is the corresponding point (a'', b'', c'', etc.) from $x\,x$ in the side elevation. This gives in plan a curve of which one-half is shown in Figure 140 by the heavy dot-and-dash line.

198. Let us now assume a number of auxiliary horizontal slices, appearing in elevation as horizontal lines through c', d', e', etc. As these points in the front elevation of the contour are the extreme right and left hand points of the slices, and since their middle points i', k', l', etc., are on the meridian profile, we locate each of these points in plan, and draw through them the outlines of these slices as shown by the finer dot-and-dash lines in the plan.

199. If now we desire to proceed farther by the slicing-method, we may easiest employ slices perpendicular to $V'P$, as for example $Y\,Y$. This cuts the auxiliary slices in a series of points which, located in plan, give us the curve or slicing-contour shown by the shading in Figure 140. The ray of light in this slice touches its contour at y, giving y' in elevation as one point in the required line of shade. We can in the same way find as many more such points as we please.

200. But it will be simpler to apply the principles of the five-point

[1] The tangent to the left-hand profile indicates correctly by its contact with the profile of the torus, a point of shade on that surface. That point, however, casts its shadow not on the profile, but beyond it, the initial point of the shadow being in reality a little higher up than where the 45° tangent to the torus intersects the profile below. The discrepancy is, however, so slight that it may be neglected when the drawing is not on a large scale.

[2] There is here the same slight inaccuracy explained in the preceding note. The real initial point of shadow is a little above q', but the requisite correction would be quite imperceptible. It should be noticed that q^1 is on the same level with q' and that r' on the corner element, is the highest point of the shadow.

method, as far as this is practicable with a form which, though not a solid of revolution, suggests in a measure both the vase and the spindle. Thus the initial and terminal points of the line of shade are located with sufficient accuracy at q' and u' where the contour is touched by 45° tangents. The lowest point of the shade will be at v' where the 45° line is tangent to the left-hand corner-element of the *ove*, this element, or a portion of it, being drawn through the points s', r', etc., projected up from s, r, etc., the "corners" of their respective horizontal slices ($f\,m$, $g\,n$, etc.). The line of shade must also pass through the point where the surface of the *ove* is tangent to the right-hand front corner of a vertical cylinder. This point is not easy to find with perfect accuracy, but it will suffice to locate the corresponding "corner" of the slice $d\,k\,d$, $d'\,k'\,d'$, though this curve would touch the vertical cylinder only at or near its extreme points $d\,d$. It would, however, very nearly coincide with it for some distance, and the corner thus found ($t\,t'$) serves our purpose fairly well, though not absolutely accurate. The curve drawn through the five points thus found ($q'\,v'\,y'\,t'\,u'$) and through p' where the meridian element is tangent to the 45° line (see p'' in side elevation) gives us a close approximation to the true line of shade required. It is obvious that this line must vary with every variation in the assumed curvature of the contours or elements of the *ove*. But for each characteristic style of *ove* — short or oblong, convex or nearly flat, pointed or blunt — there will be a characteristic line of shade, which when once learned is easily remembered and applied to all similar examples.

201. The shadow on the inner surface of the "shell," and that of the shell upon the *ove*, may be determined by the use of auxiliary horizontal sections and slices perpendicular to $V'P$, constructed in the manner just described; and the same method should be followed with the other two *oves* of the echinus. In the original drawing these details appear to have been worked out with the most laborious and painstaking accuracy, the correct curves of horizontal sections, profiles and other elements being determined by actual measurements of the capital or of its fragments.

202. Returning now to Figure 139 there remains for consideration the shadow of the left hand volute on the necking and astragal in both the elevations, and the shadows of the several convolutions of the spiral fillet of the volute upon the intervening spaces. As the shadow on the necking in front elevation is mainly cast by the edge of the volute (from a' around to and beyond d') three or four vertical slices through points in that edge, cutting the necking in vertical lines and giving oblique sections of the astragal, suffice to locate the curve of shadow $a'_1\,b'_1\,c'_1\,d'_1$ care being taken to observe where the shadow crosses the projecting carving and to "break it back" correctly at such places. The line of shade on the volute leaves its edge at $a\,a'$ and runs back along the "corner" of the cylinder forming the rim of the volute, casting a short shadow at 45° on the astragal, because perpendicular to the plane of projection. It then follows around the back edge of this rim, points in which (as $k\,k'$) may be located on the plan and their shadows found on the necking as before, giving a short convex curve upon it. The remainder of this back edge of the rim casts its shadow on the lateral surface or "baluster" of the volute itself, and the line of shade must next be looked for on this lateral surface. Its nearly vertical and slightly-curved shadow on the necking can be found accurately only by drawing this line of shade in plan and casting its shadow, point by point, on the necking. This operation has been omitted in Figure 139 to avoid confusion and complication in the drawing.

203. Figure 141 shows the treatment of the side elevation of the capital. The line of shade having been drawn upon the surface of the volute by processes to be explained later, its shadow is cast upon the necking and astragal in the same way as was once in the front elevation, or the following method may be employed. If through any point in the line of shade we pass an imaginary horizontal line parallel to the picture its shadow on the necking or shaft will be a "true section" of the shaft,[1] *i. e.*, an arc of its circumference drawn from a centre at the intersection of the axis of the shafts by the shadow of the line, this centre being found by means of the adjoining transverse section. Thus the shadow of such a line passed through K', K'' cuts the axis in K'_s, from which as a centre we describe an arc with the same radius as that of the shaft, giving us at K'_1 the shadow of the point K'. Where the point of shadow thus formed would seem to fall within the limits of the astragal we are obliged to construct through the point a 45° vertical section of the astragal whose intersection with the ray casting the shadow is the required corrected point of shadow. This was done for the points h'_1 and i'_1. Obviously those portions of the line of shade which are nearly horizontal and parallel to the picture, will cast shadows nearly conforming to the circular arc struck from the corresponding centre as $e'\,g'$ casting the shadow $e'_1\,g'_1$.

[To be continued.]

The Acoustic Qualities of German Churches. — The result of the proposal for a new cathedral at Berlin will be, it seems, a systematic inquiry into the acoustic qualities of about 100 churches in Germany. Professor Raschdorff's design for the cathedral has been criticised as impracticable for actual use as a church, and he has apparently set on foot this investigation into the acoustic qualities of existing churches by way of obtaining practical material for rebutting the criticism. Professor Helmholtz has been invited, among others, to give a scientific opinion on the subject. — *Builder.*

[1] See §120-123, Figures 98-101 in No. 766 of the *American Architect.*

THE NEW DRAINAGE CANAL. — STEPS TAKEN TO ABATE THE SMOKE-NUISANCE. — THE TERMINAL DEPOT AT THE FAIR GROUNDS.— WORLD'S FAIR NEWS.— THE WHITE STAR STEAMSHIP COMPANY'S BUILDING.

LAST month saw the actual beginning of one of the largest engineering schemes in the country. For many years Chicago has had spasmodic attacks of realizing that her sewerage system was inadequate to her needs. After each fresh attack improvements have been planned and executed, which, however, were only of a temporary nature owing to the ever increasing size of the city. At present, with every severe storm the sewers are flushed out into the river, and with any heavy fall of rain a few miles back in the country the low river valleys are flooded and the waters come rushing down into the South Branch of the river, driving all its dangerous pollution into Lake Michigan. Pumping-works have from time to time been established to induce the beautiful Chicago River to change its nature and, unlike most rivers, be able to flow two ways. These pumps are no longer powerful enough, and for the last five years there has existed a drainage-commission whose history is more stormy than that of the Guelphs and Ghibellines, but which has now either killed off its most belligerent members, has lost its fighting blood, or at least appears to be devoting itself in a somewhat more energetic manner to drainage and less to lively discussions of a somewhat political character. The present scheme is to create a channel from Lake Michigan at Chicago for a distance of forty miles to Joliet. The route of this channel will lie chiefly through the valley of the Des Plaines. Starting from one of the southwest "tributaries" of the Chicago River, it will in its westward course utilize the Illinois and Michigan canal, create new cuts and finally settle itself into the bed of the Des Plaines, widened and deepened to suit its needs. In time the current will reach the Illinois River, and by this water-way will eventually gain and mingle with the floods of the Mississippi. The one saving feature of the scheme for the counties adjacent to Cook County, and in fact for part of that same county itself, lies in the fact that the land surrounding the Lake is considerably higher than that several miles back in the country, and consequently sufficient fall can be secured in the channel to obtain for it a large volume of water from Lake Michigan. That the towns along the route of this channel, into which Chicago intends to pour all of her liquid and semi-liquid filth, should have for an hour entertained the idea of permitting such an enterprise seems incomprehensible. Such, however in the main, is the idea of the present great drainage undertaking of Chicago. There is talk of eventually constructing the channel so as to make it navigable for large vessels, thus making Chicago as well as the smaller towns along its course, in a degree, sea-ports, giving them direct connection with the Atlantic.

The law requires that the channel must be two hundred feet wide, at the surface, one hundred and eighty feet wide at the bottom, with a depth of water of eighteen feet. The flow of water must be at the minimum rate of three miles an hour. These conditions are required not because of any question of navigation, but that the sewerage may be sufficiently diluted to render it harmless and inoffensive. Experience and experiments in various countries have shown that twenty thousand cubic feet of water a minute, is the least amount that, by diluting, can render harmless the sewage from a city of one hundred thousand population. The plans will contemplate the possibility of the growth of the city during the next thirty years up to the number of three millions in population, and consequently the channel will provide for a possible flow of six hundred thousand feet or three times the original estimate. Not all of the water sufficient to dilute the sewage can be carried through the South Branch and another channel from the Lake will have to be created to enter the main channel at a point farther west. As consent to carry the drainage-canal through the west-lying towns has been obtained from the inhabitants, conditional upon the amount of pure water brought into the channel, and this permission would be cancelled if any lack of the fresh-water supply arises, it appears probable that the requirements will be fulfilled. Though this sketch of the plan contains the chief elements embodied in the scheme, there are many minor details yet to be arranged. The ceremony of breaking ground for the main channel has already taken place accompanied by the usual amount of flourish. When this great undertaking is finally completed, Chicago will have a system of drainage to be proud of, with a lake unpolluted by the drainage of a great city. The result will be most important not only to the sanitary condition of the city, but will be the means of adding not a little to its beauty, so far as its water surroundings are concerned.

With this great improvement made in one element that surrounds us we shall have hopes of improvement in still another, the air we breathe.

The Society for the Prevention of the Smoke Nuisance has no doubt done excellent work and the atmosphere in the down-town districts is actually beginning to show slight signs of being of a lighter

weight. It hardly pays to violate the smoke-ordinance many times, when a fifty-dollar fine is the price paid for doing so. No other feature of improvement, aside from actual artistic construction, could do more to increase the architectural beauty of our city than this abatement of the smoke-nuisance, and the Society is working hard to accomplish this result. The proprietors of smoking buildings are not only fined once but repeatedly if need be for continued violation of the ordinance. One of the large railroads here has recently adopted a newly-invented smoke-consuming contrivance, and it is proving so satisfactory, it is reported, that other roads are soon to adopt the same apparatus. This at least would give greater cleanliness in the neighborhood of the tracks and stations, and would save the depots themselves from the rapid smoke-begriming which causes so much loss of beauty to even finely designed structures.

The last raid made by the Society has been on the tug-boats which belch forth tremendous volumes of filthy black smoke from their furnaces filled with bitumenous coal. This smoke on calm days, which are of rare occurence here, settles over the river and abutting buildings, but with our ordinary amount of wind is able to defile the atmosphere for blocks around, excepting, of course, during the short season when navigation is closed and the tug rests from its labors. Last week the Society brought up before Judge Gresham's court the case as to whether the city had the right to insist upon it, that these snorting, noisy, but useful little objects should not so pollute the atmosphere, belching forth their filth at the very level with people on the street. The decision of this "upright judge" has been that Chicago has a right to insist that this nuisance be abated, even if it should become necessary for the tugs to use hard instead of soft coal.

The vessel-men are rebelling against this. Some insist that no smoke-consumer appropriate for use on tugs has ever been invented, which is very likely true enough, while others say that should they be compelled to use hard coal their business would be ruined and commerce and navigation crippled. One of the most prominent offenders of the fraternity considers the use of hard coal entirely feasible and evidently, now that the decision is made against them, means to make the best of a disagreeable condition. Though he with many others, before the decision, was loud in his protest against the feasibility of using hard coal, so far as the business interests of the trade were concerned, he now comes forward and admits that if all are forced to do the same prices will adjust themselves, and that the business will be just as heavy and just as profitable as before, and that the tug business is local and consequently cannot be driven away from the town, as might be many manufacturing establishments, should they be forced to use anthracite coal.

The result is anxiously awaited by the citizens of Chicago, and it is to be hoped that this raid against dirt in the air, as well as also the one that is being carried on against the filth in the streets, is not a spurt of sensational energy, but will be something of such a robust and constitutional nature that the proverbial ceaseless dropping on a stone will be as nothing compared with this incessant attack on a less resisting object.

But few large building enterprises are now being started in the business centre of the city. The idea seems to be to avoid as much as possible all obstruction of the streets next summer at a time which will naturally be an overcrowded one. The chief centre of activity is in that quarter of the town that is in the near neighborhood of the World's Fair Grounds, and at the risk of becoming somewhat monotonous these letters are forced to dwell upon such work, of which there is a great abundance. Most of the building is either on hotel structures pure and simple or on hotels so planned that they can be transformed into apartment-houses at the close of the World's Fair season. Much of the work is of an uninteresting character architecturally as, often, the structures are only temporary, erected with no thought or desire for beauty. It is estimated that over ten millions of dollars have been invested in this hotel building alone. It is anticipated in architectural circles, that next year will be one of extreme quiet among architects and builders, as there will be neither the time nor inclination to attempt much building during the summer of ninety-three; and that, consequently, most activity will be confined to work in the suburbs and out-lying districts. Most leases of buildings within the city proper have been signed this year to carry the occupants through the fair season, as people generally do not care to take the time to restablish themselves next spring or summer, and business firms do not consider it wise to make a change in location just at the beginning of a season which, of course, promises to be a very busy one.

One of the principal events in the grounds of the World's Fair this month has been the actual beginning of the great Terminal Depot, into which all the excursion-trains of fifteen roads will enter and leave their passengers. The structure, it is said, will be the largest depot in the world. That it will be an element of beauty in the grounds is to be hoped from the fact that its designer has already done excellent work in the Forestry Building and the Art Palace, while the Peristyle which promises so well is also some of his work. It is estimated the station will hold twenty-five thousand people. The plan which has recently been published seems very satisfactory. The size of the main building is one hundred and fifty by three hundred feet, while the passenger-shed in the rear will be over six hundred feet long by one hundred and fifty wide. The entrances to the main building are on the east side, there being three groups of them leading into a grand vestibule, then into the main corridor, rom which admission is gained into the principal hall, sixty by two hundred feet. This is to be an arched apartment eighty feet high. Twenty-four clocks will ornament the walls, showing the time in as many cities. The names of the cities will be emblazoned over each clock, and here the foreign visitors can congregate and imagine just what all the "dear ones at home" are doing at a certain hour, without the trouble of any burdensome calculation. Mrs. Sachinaro can stand in front of the Tokio clock and imagine little Iche or Nee at just such a minute partaking of rice and chop-sticks at home, the faithful from Cairo can know at just what second the prayers of the true-hearted are ascending from his sun-bathed city, the "good and intelligent housewife" from Berlin can come at the appointed time to be present in spirit at the daily distribution of family stores and so on *ad infinitum* through the various cities of the Universe, till the supply of clocks has run out. In the centre of the hall will be the Bureau of Information, where information concerning anything, in any language, from statistics to personalties may be obtained. At the north end of the main hall will be the rooms set apart for the use of men, while at the southern end of the building will be those destined for the use of women. These two sets of rooms will comprise reception-rooms, main waiting-rooms, check-rooms, lunch-rooms, kitchen, toilet-rooms, closets, etc.

On the second story, which will be reached by two elevators and two large staircases, will be a restaurant, as well as a room for the use of those who prefer to bring their luncheon with them. Here tables will be provided. Besides these rooms, on this floor there will be extra waiting-rooms, as well as smoking, reading and checking apartments and a union ticket-office. There is sufficient room in the train-shed to permit of twenty-four trains being unloaded at once, each train consisting of ten cars. The tracks are to be laid in triplicate sets for passenger coaches, which will be pushed up to the platforms by switch-engines. One of the exterior features of the building will be the two immense clock-towers, each of the four sides bearing clock-dials six feet in diameter.

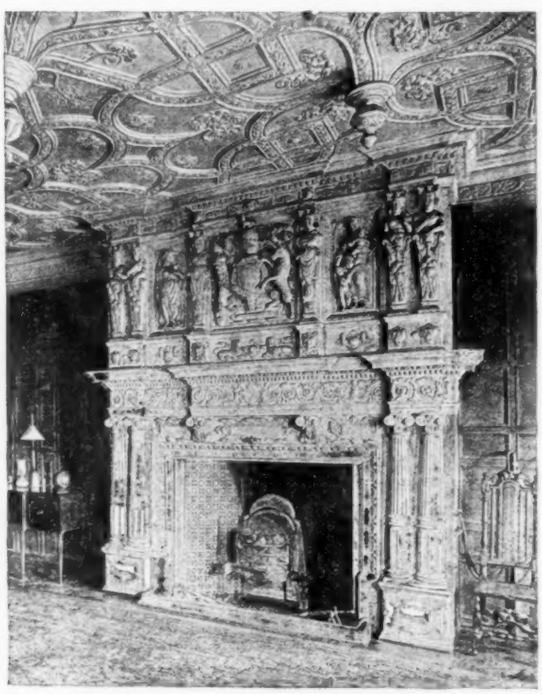
It is interesting to watch the developing of the plan for the general grouping of the buildings in the chief and central portions of the grounds, as the original plan has been materially changed. The entrance to the grounds through the Terminal Station is directly behind the Administration Building. Advancing to the front of this, you have on your right Machinery Hall, with the Agricultural Building in the distance, while on your left is, first, the Electrical Building, with the huge Liberal Arts structure beyond that. Between these buildings, extending eastward, stretches the Grand Basin, at the Lake Michigan end of which will extend the Peristyle, the Columbus Gate affording an outlet for the basin waters into those of the great lake. The drawings for this part of the plans, the grouping of the Casino, Music-hall and Peristyle, with the connecting, or more properly, dividing arch, have just been published, though the public has had vague ideas of the final plan for months. As above stated, this group of buildings extends from the Liberal Arts Hall on the north to the Agricultural Building on the south, having a frontage of over eight hundred feet. The southern building, which will be known as the Casino, and, with this whole group of buildings, abuts directly on Lake Michigan, is about two hundred and fifty feet long by one hundred and fifty wide, and contains three stories. Directly across, at the northern end, by the side of the Liberal Arts, is the Music-hall, a counterpart in external size and proportion of the Casino. Extending between these two structures and connecting them is a peristyle five hundred feet long, composed of ninety-six columns. The colonnade is broken by the arch above spoken of, which bears the rather absurdly Classical name of Columbus Porticus. This arch is planned to hold the immense group of the "Winged Victory," the Victory standing in a chariot drawn by four horses. The group itself will be nearly forty feet high, and, raised on the arch, will be a hundred and fifty feet above the Lake. To Mr. Daniel French is entrusted the designing and executing of this group of colossal statuary, and, if it is as excellent as his colossal figure of the Republic, it will be a strong element of beauty in what promises to be a very beautiful feature of the grounds. Mr. French has given us such charming creations, like the "Minute-man" and "John Harvard," that when he came to conceive this calm, dignified, impressive colossal "Columbia" it was a surprise, not in its excellence, but in the difference of its style from what we have been accustomed to. She is entirely classical in her strength and serenity, quite in keeping with the classical architectural feeling of the place, though, perhaps, not every one's realized ideal of Columbia. She will stand at the west of the arch. The peristyle will consist of a double row of columns, with an eighteen-foot space between. The columns will be fifty feet high and five in diameter. On the arch which divides the colonnade are to be inscribed the names of the great American explorers, while over each of the columns, on the eastern side of the peristyle, will be heroic figures representing our States and Territories. A garden will extend along the roof of the peristyle, access to which will be gained either from the Casino or Music-hall. The chief feature of the Music-hall will be its large auditorium, with a seating-capacity of two thousand five hundred, while galleries, a rehearsal-hall and offices of the Bureau of Music will also be contained in the building. It really makes one exhausted in advance to hear of all the congresses and conventions of all the arts and sciences which are to take place in Chicago at the time of the great Exposition, and, with so much of interest to be seen, one regrets, with Milton, that the power of sight could not have been given to the whole surface of the

body, and not be confined to one weak and tender organ. The two upper floors of the Casino are to be used for restaurants, while the lower floors are to be given up to the Bureau of Public Comfort. Apparently, visitors may get all and everything they desire while on the grounds if they only can think just what they want and find out where to go for it.

Another building of interest is the little structure destined to be the headquarters of the White Star Steamship Company. It is a round, dome-covered building just north of the Horticultural Hall, and in its general shape suggests an overgrown pilot-house. The structure, though appearing very small by comparison with its neighbors of mammoth proportions, is over a hundred feet in diameter. It is only one story high, surmounted by the dome above spoken of. A space on the roof twenty feet wide extends from the eaves to the base of the dome, and this is to be fitted up like the awning-deck of a ship, with bulwarks, etc. A portico, through which entrance is gained to the building across the eastern front, is to be fitted up like the promenade deck, while two signal-lights such as are used on shipboard, introduced on either side the entrance, will help to carry out the nautical feeling. The interior is to be fitted up in quite elaborate fashion, some of the main features being copied from the grand saloon of the "*Teutonic.*" An upper-deck state-room of this same ship will be duplicated, with bath and all the latest travelling conveniences, while another state-room will represent the captain's apartment on a well-organized vessel.

Since last month, the fate of the "floats" to be used at the opening exercises of the World's Fair has been sealed. Though it appeared to be definitely settled that, good or bad, they were to be dragged before the public, it now seems equally certain that such is not the case, and that many thousand dollars' worth of floats are now for sale. It has been suggested that they might be put on wheels and offered to St. Louis at a reduced rate for the Veiled Prophet celebration. Whether they are really good or bad, but a few privileged people have been able to judge, but it seems wise that this feature should be omitted from the inaugural ceremonies this month, as being especially trivial and unworthy the enterprise that they in part introduce. The arrangement for the whole opening ceremonies seem questionable, and the fact that the formal opening is this year makes the occasion seem strained and unwarranted. One hardly stops to think of the reason that exists for this in the special date of ninety-two.

BRISTOL AND THE CHICAGO EXHIBITION.



Antique Fireplace in a House at Bristol, Eng.

THE people of the United States have designed their great exhibition to illustrate their four centuries of development. They will make much of the discovery period of the new world and of the great pioneers who found two continents. Columbus will be first in their hearts, their memories and their acclamations. And this will be entirely proper. His qualities were great as his achievements, and he is one the world may honor without reservation. It is not to his derogation that the people of Bristol propose to commemorate at Chicago the doings of the Cabots.

It is their opinion that the Columbian Exposition might have a Valhalla, and no individual god be any the less. They recall with pride that their ancient city was first in westward exploration; that their ancestors' money fitted out the first expeditions from England to the new world; that their fellow-citizens were the devisers and leaders of the voyages. They say that the part of the Cabots in reserving to the Anglo-Saxon race, the northern continent has hardly been adequately noticed in history; and that they wish to bring to the attention of the world, from honorable motives of national and municipal pride, the striking influence exercised by their forefathers over the future of the new world.

The two Cabot voyages, those of 1496 and 1497, have had comparatively little notice from chroniclers, for several reasons. In the first place, to minds influenced by enthusiastic accounts of the doings of Columbus, the expeditions seemed barren of results. Again, there is confusion between Cabot father and Cabot son, and there is not the sharp identity necessary to make a hero. Sebastian, notwithstanding a long and brilliant career, passed alternately in the service of England and Spain, died unnoticed in the reign of Philip and Mary, and the voluminous records and careful maps that were the pride of his declining days, disappeared without a trace. Had accident or chicanery left to us the diaries and records of Sebastian, there is little reason to doubt but that his niche in the temple of fame would have been forever held inviolate. Amid all the doubts and uncertainties of his almost unchronicled career we may discern one splendid fact, one momentous circumstance, fraught with results to the human race not to be computed by the finite mind, and far-reaching even beyond the bounds of time.

Sebastian Cabot pre-empted North America for the Anglo-Saxons. In a map drawn in the year 1500 by Juan de la Coso, friend and hydrographer to Columbus, the northeast coast is starred with five English flags, thus marking the Spanish admission of England's rights, in virtue of prior discovery. Other considerations doubtless to some extent operated in preventing Spain and Portugal from attempting to extend their dominion over the north, but the primary fact was that England had established herself there. She was tacitly left to the free enjoyment of her terrritory. It is idle to speculate on what might have been the history of North America, if Spain or Portugal had obtained a foothold there. It is probable, however, within bounds to say that if Chicago were speaking Spanish to-day it might not have so splendid a national development to celebrate at the coming festival.

The people of Bristol for over a year have been working at a plan for representing in a simple yet adequate way the share of their ancestors in the national glory of America. At a representative meeting held some months ago in the hall of the Society of Merchant Venturers (Sebastian Cabot was the first governor of the parent society in London) the whole matter was placed in the hands of a representative committee of citizens, who in turn delegated their authority to a sub-committee composed of those who by antiquarian studies were qualified to conduct such a matter intelligently. This sub-committee has held many meetings during the past few months, and has finally matured its plans. It decided to reproduce in Chicago some characteristic Bristol structure, and to display therein such illustrative memorials of antiquity as might be available. After a careful inspection of such buildings as came at all within the purview of the plan, the final decision rested upon two mediæval rooms in the building now in the occupation of Messrs. Franklyn, Morgan and Davey. The building in times past was the residence of merchant princes, and these two chambers, the drawing-room and the ante-room, have been carefully preserved through the vicissitudes of time and the changes of fortune. They are panelled throughout in oak, elaborately carved and ornamented, decorated with rich friezes and embellished with a profusion of chaste detail. The larger room contains a chimneypiece of florid design, reaching to the ceiling, this latter being of an ornate workmanship in keeping with the general artistic opulence of the chamber. It is intended to reproduce these two rooms, exactly as they stand, in oak, with the carving done by hand. The illustration gives a good idea of the beautiful decorations of one of these rooms. The reproductions will, in fact, be equal in artistic excellence to their models, and there will be nothing of sham or papier maché about them. It is proposed that they should be displayed as a separate structure, and the exterior will be in complete accord as to period and workmanship with the interior. The rooms in themselves, no mean display, will be used for the receiving of objects of antiquity, associated with and illustrative of the discovery and colonial periods of American history.

It is to be regretted, of course, that the meagre records left of the lives of the Cabots do not afford means for reproducing objects directly associated with them; but it is not even known in what house they lived, though their parish is recorded. The house that will be reproduced is believed to look down upon the very spot in the Avon whence their little vessel, the "*Matthew*," weighed anchor for the unknown world; but more of personal association than this it has been found impossible to compass. Nor is it possible to obtain articles for the exhibition that have a direct relation with the explorers. Articles having even an apocryphal association with them are lacking. Under these circumstances the Bristolians have done the next best thing. They are collecting objects of authentic history connected with the times; and they have a great mass of material to select from which shall illustrate the close relations of their ancient city with the beginning and the development of the New World.

Their plan involves the expenditure of some 3,000*l.* They have had the coöperation of the Royal Commission, which has made them

a grant of one-half this sum; and they are expecting further aid from the exhibition authorities at Chicago to the extent of 500*l.* The remaining 1,000*l.* they expect to raise amongst themselves: and this, in view of the purely sentimental nature of the display, and of the prevailing commercial depression, cannot but be regarded as a handsome contribution to municipal pride. There can be no two opinions as to the interest that will attach itself to this exhibit; but we are not without some apprehension that the necessary funds will be subscribed, and in any case we think it would be a useless expenditure to provide a separate building for the installation of the memorial. The beautiful decorations we have mentioned would be in every way suitable for two of the rooms in the large building now being erected at Jackson Park for the headquarters of the Royal Commission, and if the memorial was installed there, a large expense would be saved the Bristol committee and the Commission. — *Engineering.*

THE ILLUSTRATIONS

[Contributors are requested to send with their drawings full and adequate descriptions of the buildings, including a statement of cost.]

ENTRANCE TO HOUSE NO. 25 EXETER STREET, BOSTON, MASS. MESSRS. PEABODY & STEARNS, ARCHITECTS, BOSTON, MASS.

[Gelatine Print issued with the International and Imperial Editions only.]

WAREHOUSE FOR MR. EDWARD PRIAL, NEW YORK, N. Y. MR. CHARLES H. ISRAELS, ARCHITECT, NEW YORK, N. Y.

THE building is unfinished in the interior and cost $65,000. The exterior is of North River hard brick and Philadelphia face brick. The entire first story and all arches and main cornice being in the latter material.

ARCHITECTURAL SHADES AND SHADOWS: PLATE VII.

SEE article elsewhere in this issue.

HOUSE AT THE CORNER OF LOCUST AND JUNIPER STREETS, PHILADELPHIA, PA. MR. W. EYRE, JR., ARCHITECT, PHILADELPHIA, PA.

HOUSE OF JOHN F. ANDREW, ESQ., HINGHAM, MASS. MESSRS. LONGFELLOW, ALDEN & HARLOW, ARCHITECTS, BOSTON, MASS.

SKETCH FOR A DRAWING-ROOM. MESSRS. DELHI & CHAMBERLIN, ARCHITECTS, NEW YORK, N. Y.

[Additional Illustrations in the International Edition.]

PRIZE DESIGNS FOR AN ARTILLERY MUSEUM.

THESE designs submitted in the competition for the Prix de Rome are copied from *La Semaine des Constructeurs.*

HOUSE ON THE AVENUE DE VILLARS, PARIS, FRANCE. M. PASQUIER, ARCHITECT.

THIS illustration is copied from *La Construction Moderne.*

DETAILS OF THE HÔTEL DE VILLE, OUDENARDE, BELGIUM.

THIS plate is copied from *Building News.*

EVANGELICAL CHURCH, ZWICKAU, SAXONY.

THIS plate is copied from *Architektonische Rundschau.*

SAINT ANDREW'S KIRK, MADRAS, INDIA.

SOON after the publication of the last charter for the Honorable the East India Company, in 1813, the members of the Scottish Church in India adopted measures to have kirks built at the different Presidencies, and accordingly, about the year 1816, the first was erected at Calcutta, which, generally speaking, is a handsome edifice.

Some difficulty arose, however, on the score of steeples proposed to be added to these kirks, and it was understood that Doctor Middleton, the Bishop of Calcutta, had opposed it, as an unusual and unconstitutional measure, inadmissible out of Scotland; but Doctor Bryce, the head of the Scottish Church in India, persisting in support of his own establishment, carried the point, and the kirk steeple rose in proud majesty among those of the English Churches.

Madras was the next Presidency at which one was to be erected, and the Government there having lately built St. George's Church on Choultry Plain at the Company's expense, for the Church of England service, could not, with consistency, do less for that of the sister kingdom. The necessary orders were consequently given for purchasing a piece of ground which should afford a fit site for it, and for preparing plans and estimates for a suitable edifice.

The situation selected was in some respects the most unfavorable that could have been chosen, especially as regarded the nature of the soil on which the structure was to be founded; it was also in an unpleasant neighborhood, on the banks of the Chintadripettah river, which, for many months in the year, had little water in it, and that often stagnant and unwholesome; it was, moreover, near the noisy village of the same name, and its pagodas. But it had advantages which weighed in the opposite scale; it was not far from the boundaries of the Esplanades, and therefore convenient for any part of the garrison of Fort St. George which, if of that Church, might be disposed to attend its service. Over every other consideration, however, the apparent cheapness of the bargain (the prime cost of which was only 4,000 pagodas[1]) prevailed.

The plot purchased contained six or seven acres of land, and on it stood the Old Freemason's Lodge, built about thirty years before by Mr. Lucas of the medical establishment.

The old building on the ground served for the kirk and the minister's manse till the new one was completed, and was afterward removed.

When the plans were called for, Lieutenant Grant, of the Engineers, acting temporarily as Presidency Superintending-Engineer, submitted one. The Elders of the kirk had determined on a circular form, and as great anxiety was manifested to have the work begun immediately, much feeling having been excited on the question of steeples, and the engineer himself wishing to begin the work before he should be superseded, recourse was had to the ready expedient of borrowing from another, and Gibb's plan for a circular church, proposed for St. Martin's Lane in London, about seventy years ago, (but set aside for the present building on account of the great estimated expense) was resorted to. With a few alterations, a copy of this plan was submitted on a somewhat reduced scale.

It was in like manner hastily approved. The Right Honorable Mr. Elliot, the then Governor, being favorable to the object in view, found no fault with it. But another question then arose between the Bishop and the Scottish Ministers, as to the competency of the latter to marry and baptize in their kirks. This question seemed to be of such vital importance, that the building of St. Andrew's at Madras was postponed, until an answer should be received to the reference made by Doctor Bryce to the Mother-church on the subject.

The ensuing year, 1817, a favorable reply having been received to this reference, and more time and attention bestowed on the plan, it was found objectionable in many particulars, more especially in the nature of the proposed roof which would have been difficult of execution, much more expensive than anticipated, and not sufficiently strong or durable for an edifice of that description.

The Chief Engineer, Colonel Caldwell, reported officially upon it: he was of opinion that the roof intended would never answer, and recommended that the dome should be covered with lead or copper; but such a covering, at Madras, would have rendered the church scarcely sufferable from heat; besides that, it would have been very difficult, if possible, to have secured the wood-work from the white ants, as has been evinced in St. George's Church on Choultry Plain, whose organ has narrowly escaped being completely reduced to dust by that persevering and destructive insect.

Meanwhile, the author of these remarks had been called to the Presidency to take charge of the Superintending-Engineer's department, and after communicating with the Minister and Elders, he reformed the plan, and submitted it with all its details for their approbation, which was obtained in the most flattering and unqualified terms, and subsequently confirmed by the Government.

The circular form was retained, and the dimensions originally proposed generally adhered to; but in other respects the plan was entirely new in design and construction. The main object was, strength and permanency combined with lightness and neatness. Above all, the total abstraction of timber-work in the roof was desirable: first, because, in the vicissitudes of that climate, even the best-seasoned wood soon perishes; and secondly, because it never can be completely secured against the depredations of the white ants. On these grounds it was resolved to dome and arch the building with masonry, if it could be safely contrived without making it heavy, or taking away from the elegance of the design. Such an undertaking was of no small difficulty without incurring very great expense, and was even by many considered impracticable.

The edifice may be thus described: The body of the church is a circle eighty-one feet and a half diameter in the clear, with a rectangular compartment east and west of it, and a portico beyond the latter to the westward. Over the circular part is a dome, covering as it were the nave of the church, with an annular arch around it over what may be termed the aisles.

This dome is fifty-one feet and a half in diameter, interior measurement, borne on sixteen columns, disposed at unequal distances; thus the whole circumference of the soffit of the entablature is divided into sixty-four parts, five of which are given to the two intercolumniations through which the main passage leads, from the principal entrance westward to the pulpit and sacramental room; two parts to the next intercolumniations on each side; and three parts to each of the ten others; which, with the sixteen diameters of the columns themselves, each equal to one part, make up the sixty-four parts of the circumference taken in the centre of the entablature.

The architrave and the frieze, which stand on the sixteen columns, are of stone, laid in the manner of a straight arch perfectly horizontal; but the cornice above is of brick; and on it rests the dome, the equilibrium of which is preserved by the lateral pressure of the annular arch round it resting on the outer walls of the building.

On the sixteen columns above-mentioned, the four bearing the principal intercolumniations are of granite; the remainder are of

[1] Pagoda = about $1.70.

the same kind of stone as the architrave and frieze, and of what is at Madras termed the iron-stone: an indifferent sort of material, apparently composed of clay and scoriæ of iron more or less honeycombed, but which by experiment has been found to be of a consistency sufficient to resist a pressure three times as great as bricks would bear, without being crushed; and it is calculated that if the stones were well selected and laid, the columns might support seven times as much weight as is actually laid on them.

The capitals of these columns are all of granite to secure the volutes, which are ponderous, from breaking off by their own weight or by accident; and on each capital stands another block of granite, against which the straight arch of the entablature presses and is supported. The voussoirs are about three feet high, the whole breadth of the entablature, and one foot thick.

The dome is so constructed as to relieve the entablature by means of arcades, wrought into it and resting on the columns; while at the same time it is, as it were, but a framework of brick, running upwards from the columns also towards the crown, where these ribs are terminated and united together by a circular arch of the same description. This framework is then filled-in with masonry formed of cones of pottery such as are used in Syrian roofs.

The purpose of this mode of construction was: first, to relieve the entablature between the columns; and secondly, as already remarked, to obtain as light a structure as possible (which was of moment in so unfavorable a soil) consistently with strength and durability.

With a view to render the equilibrium of the whole still more perfect, the arcade, built into the dome as above described, is carried outwardly, above the terrace of the annular arch, to the exterior limit of the upper diameter of the columns, where it rises perpendicularly to the height of the balustrade which surrounds the building, and where it terminates in a cordon, from which two steps retreating unite it to the exterior curve of the dome; these steps themselves standing on a small scheme annular arch, which tends also to lighten the edifice. This combination at once resists the lateral pressure of the dome, and stabilitates the columns on which it rests.

The interior form of the dome is a segment of a sphere, fifty-one feet and a half in diameter, and twenty-four feet high, including the entablature, making the whole height under the key from the pavement about fifty-four feet. In the interior of the dome, above the entablature of the order, stands in relief a balustrade, through which is seen, as it were, the azure sky, the canopy of heaven, represented by the stucco of the dome colored with lapis lazuli. This appearance gives to the whole an awful grandeur, which could not have been expected in so small an edifice.

The balustrade, however, rising against the curve of the dome, and not being quite perpendicular, appears, as seen in the drawing of the interior of St. Andrew's, in discordance with the strict rules of architecture; but when viewed from beneath the dome, it does not offend the eye as might be supposed; and its height having been diminished to assist the perspective, the defect is rendered less obvious. Similar anomalies, however, may be traced in the works of some of the best masters of the art: in St. Paul's Cathedral, for instance, that *chef-d'œuvre* of the great Wren and of British architecture, the pilasters in the interior of the cone supporting the dome, if examined in the drawings, will be found to have a similar defect, arising from their convergence; but the defect does not offend the observer below, while it in fact adds to the grandeur of the scene, by giving the appearance of greater loftiness to the cone.

This may be a fit place to remark, that when the entablature above described was placed on the capitals of the columns, a rod of iron, one inch in diameter, was carried round in a groove under the soffit, which passing between the blocks of stone and the capitals, formed a complete ring; it was then supported by iron Y's, in the foot of which was an eye to receive it, the two tops of the Y's running into the arcades of the dome above mentioned. These Y's descending through the entablature grasped the ring in the middle of each intercolumniation and kept it in its position. No great resistance was expected from this ring, and the object of it was chiefly to observe if any movement should take place in any part of the circle from an imperfect equilibration in the dome and annular arch, and to keep the whole together in its place whilst the scaffolding was removing. But no movement whatsoever was perceived, the ring suffered no more strain than when applied, and might easily have been removed; but as no inconvenience from it was anticipated it was allowed to remain, and the groove was stuccoed over.

The annular arch, it may be here stated, was also chiefly composed of pottery cones like the dome, the springs of it only being of brick.

The order within is the Composite, the whole height thirty-five feet, of which three feet six inches are taken up by low, circular pedestals the height of the pew-rails. The entablature is five feet four inches, and the column, including base and capital, twenty-six feet two inches. The pedestal is made circular for convenience, as it is not seen; and the base, standing immediately above the pews, leaves the whole column exposed to view. The diameter of the column is two feet seven and seven-eighths inches, and diminishes to the top only one-eighth; but the shaft is fluted and rudented plain one-third of the height, to give it gracefulness and lightness.

Corresponding with the columns, and in a line with them drawn from the centre, are single pilasters against the wall of the edifice, projecting one-fourth of a diameter, fluted and rudented one-third, but straight, without diminishing at top, such diminishing being of bad taste, even when the pilasters stand near the columns. Between the pilasters, arcades are shown of the same depth as the pilasters, in each of which is a circular-head door and an oblong attic window above it. The arcade is terminated by an archivolt resting on an impost, and keyed with a console bearing the architrave from which the annular arch springs.

The frieze of the entablature which supports the dome is formed of projecting fasces wreathed, and the soffit of the straight arch or entablature is panelled and enriched with foliage between the columns. Other parts of the entablature are also lightly ornamented.

In the annular archway, or aisle, the architrave of the order is alone preserved, from which the arch springs. A lighter and better effect is thus obtained for a small span, while by the lateral pressure of the arch placed in this manner a better counterpoise to that of the dome is obtained; above the architrave is a neat Etruscan border.

The thickness of the dome at the crown is only nine inches, whence it gradually increases to nearly twice that dimension at the cornice. Over the Syrian cones already mentioned three courses of flat tiles are carefully laid, and on them the stucco is applied.

Without arrogating to himself any particular merit in the edifice, the Engineer may, he believes, safely say that it is the only building extant, or, at least, generally known in the world wherein a dome of masonry of those dimensions is supported on a colonnade of that height, the entablature of which is a straight arch without beam or lintel. Many larger domes exist, doubtless, but they are supported on solid walls or strong arcades, and if any there be resting on colonnades, it is where the intercolumniations are small, and by means of strong beams or massive stone lintels cramped together, and not acting as voussoirs against each other. In the present case, the span of the largest intercolumniation or straight arch is sixteen feet from the centre of the columns supporting them. But the unfavorableness of the soil rendered the undertaking by much the more difficult, since any deficiency of equilibrium in the several parts could not be indifferently made up by excess of solidity without running the risk of partial and unequal settlements, which would have rent the building in every direction.

The eastern rectangular compartment contains a long room, into which the body of the church opens through a lofty arch (as seen in the drawing of the interior) immediately behind the pulpit, which exhibits a grand appearance scarcely to have been looked for in so limited a construction. This room is forty-eight feet by twenty, and is intended for the administration of the Lord's Supper when it may not be convenient to use the nave for that purpose, as is most commonly the practice in the Scottish Church. It is flat-domed, with Syrian cones in three compartments, supported on eight columns of the Composite order, with pilasters behind them, surmounted by an entablature, in which, to render the stile less heavy, the frieze has been omitted. Above this entablature, angular pendentives spring to support the oval and circular domes. The whole height of this order is twenty-one and one-half feet, but without pedestals; and the entire height from the ceiling to the pavement is twenty-nine and one-half feet.

The rectangular compartment to the westward corresponds in exterior form and dimensions to the other; it contains the base of the tower and steeple, twenty-four feet square (in which is the vestibule, fourteen feet in diameter), with a room on each side twenty-two and one-half feet by twelve. These side rooms, through which there are other entrances into the church, are intended to hold staircases to the galleries whenever it may be deemed necessary to erect them for additional accommodation. One of these staircases is already constructed, and leads to the tower and steeple; nor would it be attended with much difficulty to establish galleries and an organ-loft opposite the pulpit, although when St. Andrew's was built they were both expressly forbidden. Such galleries should be supported on iron standards free from the columns.

The effect of a good instrument in this church would be admirable, and few apartments could be better suited to the solemn and lengthened notes of an oratorio or other sacred music.

The steeple stands on the tower, which is raised over the vestibule to a level with the crown of the dome, and rises above it 111¾ feet, divided into three stories — a spire, ball and weathercock — giving to the whole an elevation of 131½ feet above the entablatures, and of 166½ feet above the pavement of the church. The first story is square, with Venetian doors in recess, covered by pediments on projecting columns of the modern Ionic order. The second is octagonal, with columns of the Composite order at the angles, disengaged about two-thirds of a diameter, and the third is circular, with eight Corinthian columns projecting two-thirds of a diameter, as in the second story; and the spire, on an octagonal base, is fluted, the whole gradually tapering into a pyramid, whose height to its base is as 14 to 3 nearly, offering a pleasing object to the eye of the observer. The weathercock, which is of copper, is made to turn on a red-wood spindle, to neutralize as much as possible the fatal effects of thunderstorms.

On the 8th of May, 1820, the steeple was completed, and on the 11th, only three days after, was exposed to imminent danger in a most violent storm while the whole of the scaffolding was still about it, opposing a surface to the raging elements three or four times the area of the steeple itself. The wind blew with the greatest violence

for thirty hours, chiefly from the northeast, during which period sixteen inches of rain fell at Madras, and the scaffolding, which was framed of heavy spars and purlins, was blown against it, but the steeple resisted the whole storm unhurt.

To the westward of the compartment containing the steeple stands the portico, of the modern Ionic order, on a colonnade doubled in its depth, surmounted by a pediment along the whole front, in the tympanum of which the sacred name "Jehovah" appears in Hebrew characters of gold in a triangle, radiating rays of glory, while in the frieze below stands the name of the edifice and the date of its erection. The whole length of the portico is fifty seven feet, the breadth, out and out, eighteen and one-half feet, and eleven feet within the columns.

The basement of the building is four feet high, and serves as a plinth to the order (which has no pedestal) all around the edifice, running flush throughout, as well as the entablature, with breaks. This gives the appearance of neatness and of additional strength to the edifice.

The exterior order, like the interior, is thirty-five feet high; the diameters are three feet two inches and an eighth, being one-eleventh of the whole height, or one-ninth of the column itself; the entablature two diameters. The pilasters run up without decreasing, but the columns diminish one-eighth; they are both fluted, and rudented one-third up.

The balustrade round the building is of the same height as the entablature, and serves to screen the arcades of the dome above, and to make the dome itself as little conspicuous as possible, so as not to take away from the loftiness of the steeple, which is the principal object. The entablature, without being loaded with decorations, is not altogether plain: its frieze is filled with an Etruscan border, and some of its members are foliated. The capitals of all the columns in and out are of stone, so that the volutes are in no danger of giving way, as occurred at the Madras banqueting-room, when it became necessary to remove them all, and to change the style of the order altogether.

The ratio which the whole area of the church bears to that of its walls and columns, is as 6.658 to 1; and that of the interior area of the body of the church to the section of the sixteen columns supporting the whole roof, as 5.973 to 1. The former ratio is nearly the same as Rondelet finds in the church of Saint Sulpice at Paris, but greater than that of St. Paul's in London, which is as 6 to 1; and the latter is within a small fraction as great as that of St. Joseph's at Palermo, the lightest building mentioned in Mr. Rondelet's tables. The area of the ground which St. Andrew's Church covers is 10,193 feet.

There remains still to be described the foundations. It has already been remarked, that the soil was most unfavorable, as indeed it is throughout the vicinity of Madras. The practice which has obtained from time immemorial in this part of India to secure edifices in such cases is a simple and a most efficacious one, worthy the notice of architects in general: it is that of substituting wells for the pile-work used in Europe.

In the present instance, the whole area of the edifice, excepting a circle in the middle of about thirty feet diameter, was sunk as deep as it could be with convenience, and until the water and the mud became difficult to control. This was at about the depth of fourteen feet below the surface of the soil; it was then levelled and the wells formed and founded on that surface. These wells were of two kinds, of brick and of pottery, the former about four feet in diameter in the clear, the latter three feet.

In the plans annexed, it will be observed that the larger wells of brick are disposed under the more essential parts of the building, and that they are supported by the smaller of pottery. On the same plan is shown in dotted lines the outline of the foundation as laid on the top of the wells, which foundations diminish regularly upwards to the dimensions at the basement shown in the other plan. In order to stabilitate the edifice and to bind every part firmly together all the foundations are connected by vaults, from a half to a whole brick thick, upon a rise of three or three and a quarter feet; that is to say, the vaults spring at the ground level, and rise to receive the pavement at the top of the basement, the spandrels being filled up with broken brickbats and lime mortar, called in India *jully*.

Thus the whole area of the church comprises a series of vaults, which, besides strengthening the edifice, might at any time, if expedient or necessary, be converted into catacombs. Under the tower and steeple the large brick wells alone are used; and as it was expected that the greatly exceeding weight of that part of the building over the rest would cause its masonry to settle more than the rest, the further precaution was taken of having inverted arches under the rooms on each side of the tower, so that the weight of their outer walls should in some degree become a counterpoise to the tower.

The wells are sunk about nine feet, the foundations being raised about thirteen and a quarter feet above that, and the basement four feet more, make the whole depth below the pavement about twenty-six and a quarter feet. But even at that depth the soil attained was still of the nature of a quicksand, and to appearance not very solid: but it was a sand, a substance that would not dissolve or alter its volume.

After it was over St. Andrew's Church was examined. No damage or mischief at first appeared to have been sustained; but, on a closer inspection, a crack was observed across the building, between the sacramental-room and the porticos on the north and south faces, obliquely from near the room on the south side to the portico on the north. During the storm the centerings of the sacramental-room had still remained, and though they were heavy, and supported on temporary brick pillars, their weight could not alone have been the cause of this accident, since the fissure observed was at a considerable distance from them, and that the whole weight with the centerings, must have been as nothing almost, compared with that of the steeple; and hence there was every reason to believe that the edifice had been struck during the storm by a thunderbolt. It was, however, determined to prosecute the work, and the crack, which, though scarcely perceptible, could be traced from the top of the wall to the bottom on both sides, and through the foundations for the columns within, has not since suffered any change. Such cracks, however, in another construction might have proved fatal: they would have served as a gallery for the white ants up to the roof, which, if it had been of timber, they might soon have destroyed.

The first stone of St. Andrew's was laid under the northwest angle of the steeple, on April 6, 1818, by the Reverend Doctor John Allan, D. D. and M. D., who then named the edifice, and blessed and consecrated it for divine worship, according to the rites of the Church of Scotland. The ceremony was simple, without procession or pageantry. Everything having been prepared and a platform laid, the minister, supported by the four elders, came to the spot, accompanied by a numerous and respectable assemblage of the congregation. Under the stone was deposited specimens of the several coins of the British and Madras currency, and a brass plate, containing the following inscription on one side, and the same rendered into Latin on the other.

By the Grace of Almighty God,
in the Reign of GEORGE III, Father of his Country,
and during the Regency of GEORGE his Son,
the First Stone of this Edifice,
appertaining to the Church of Scotland,
was laid,
in the presence of
Robert Fullerton, David Hill, Kirby Dalrymple,
and William M'Taggart, Esquires,
the Elders of the Church of Scotland at this Presidency,
by John Allan, D.D. and M.D.,
their Minister and Moderator,
on April 6, 1818:
The Right Honourable Hugh Elliot being Governor;
Major Thomas Fiott de Havilland, Architect.

This inscription was also written on parchment, with other translations of it in the Tamul and Gentoo languages; the parchment likewise contained the relative value of the coins at the currency of the day, and with the coins themselves, was inclosed in a bottle hermetically sealed, for which a cavity had been prepared in a block of granite underneath, to be covered by the plate, and then by the foundation-stone, after the intervening surface had been endued with mortar by the Minister. A silver trowel had been prepared for the occasion, and the foundation-stone suspended to a small tackle over the site, by means of which the Minister unassisted performed the whole operation of laying the stone.

The prayer offered up to the Almighty on the occasion by that worthy and truly amiable man the minister, was highly appropriate, and was delivered so impressively as to reach the hearts and feelings of all those who were present.

The congregation departed with hearts warmed by the piety of their excellent pastor, fervently praying for the success of the undertaking.

It may be here remarked, that the bells for the church, were also ordered at Madras; but there was no foundry established there for large works, except that at the powder-mills. When the casting of the bells was suggested, no doubt was entertained of the head founder of that establishment being allowed to give his assistance in the undertaking. When, however, application was made to the Military Board, under whose orders the powder-manufactory is placed, it was not found convenient to spare him.

The project was nevertheless persevered in, the Government not counter-ordering them; and after some trials in a temporary foundry erected for the purpose, and an experienced founder having returned from Bengal, a handsome bell was cast, four feet in diameter (the largest ever cast at Madras), and two smaller ones; but from the foundry being only a temporary one, and the founder not having all the requisite means conveniently at hand, the tips of some of the ears of the great bell remained defective, and although they were yet abundantly strong to bear the weight of the bell, and much more, it was thought more prudent to perforate the crown and to fix in it a wrought-iron preventer staple, which was accordingly done, without in the least affecting its tone, which, in the presence of the Governor, was, on being completed, tried and found to be a most excellent one. It was then put up and generally approved. The first time it was tolled was at the funeral of the worthy pastor.

Not a word was said against this ill-fated bell till the engineer had left Madras, when, through some unworthy intrigue which need not here be detailed, the bell was cried down, and the Military Board was induced to order an inquiry. For this inquiry it appears, from the reports of the day, that the founder of the powder-mill establishment, without whose services it had been cast, was selected, and it is not surprising that he should report upon it unfavorably, when a great jealousy existed between him and the founder employed. The bell was then ordered to be sold for the account of Government. But it was not sold in *statu quo* to the

best bidder, the most customary mode of proceeding, it was first brought to the arsenal, and there broken up, involving, of course, additional expense.

The cost of St. Andrew's Kirk amounted to about £20,000, all contingencies included; a sum which must be deemed exceedingly moderate for a building of this description, and finished with the care and in the style that it is; and with the cheapness of which few, if any, at Madras can be compared; even such as are of a much plainer, and of a far less durable construction: but no pains were spared to insure permanency and economy. — *Indian Engineering.*

THE TOWN-HALL, LOUVAIN.

Louvain, like Bruges, presents the appearance of a town that has fallen from its ancient state. At one period it had its turn of remarkable prosperity, and was reputed the largest and richest of the Flemish cities. It was the residence of the Dukes of Brabant. They and their followers were only consumers on a grand scale, and the weavers whose work brought its wealth to Louvain rose in rebellion against the rulers. The traders were overcome, and, fortunately for England, a great many of them escaped across the Channel, and enriched that country with their technical skill. As a consequence, Louvain declined, and its population at present is hardly one-sixth of the number in the city in the fourteenth century.

The building of the Hôtel de Ville was commenced in 1448, or over sixty years after the revolt of the weavers, and it is evident that at the time Louvain was still wealthy. The exterior was completed in 1459, and the interior in 1463. The architect was Matthew of Layens. It is supposed, however, that his design was examined and modified by Gilles Pauwels, who was the architect of Philippe le Bon. The inhabitants of Louvain believe that their town-hall is not surpassed by any similar building in Belgium. On plan it is most simple, and it has not the advantage of a high tower; but once seen the building must be remembered for its proportion, detail and ornament alone. It is creditable to the Municipality that they continue to expend a good deal of money in upholding the building, and in the adornment of it with paintings and sculpture.

DETAILS OF GEORGE HERIOT'S HOSPITAL, EDINBURGH, SCOTLAND. R. SHEKLETON BALFOUR, ARCHITECT.

CHURCH AT ASHTON-UNDER-LYNE, ENG.

COMMUNICATIONS

[*The editors cannot pay attention to demands of correspondents who forget to give their names and addresses as guaranty of good faith; nor do they hold themselves responsible for opinions expressed by their correspondents.*]

A CASE OF TEMPORARY SEQUESTRATION.

San Francisco, Cal., September 7, 1892.

To the Editors of the American Architect: —

Dear Sirs, — Please inform me through the columns of your journal or by mail on the following question.

The authorities of the city of San José, California, advertised for plans and specifications for a new High School Building for their city to cost from $50,000 to $75,000.

The plans for same were duly submitted by nine (9) competing architects and my drawings were adopted.

At this time they had as yet not voted for bonds or otherwise to place the city in an indebtedness to build the said building.

They have my plans on file and I am unable to obtain possession of them.

Am I entitled to any compensation for my work so far and if so what per cent?

An early reply will greatly oblige, Yours very truly,

Fred T. Petersen, *Architect.*

[It seems to us that the city has a right to keep the plans, at least for a reasonable time, until it is in a position to be able to make use of them. When that time comes, it is to be presumed that they will be duly paid for. We do not, of course, know what were the advertised terms of competition; but, unless the city offered to pay for the plans adopted within a specified time, we should say that by withdrawing them now you would probably forfeit all right to compensation. Eds. American Architect.]

NOTES AND CLIPPINGS

Exacting a Fee for Non-authenticating a Painting. — An English artist on being applied to by a purchaser of a picture signed by him, with the request that he say whether it was genuine or not, replied by asking the owner $26 — that being his ordinary price for authenticating paintings. The owner sent this fee and the picture for inspection; the picture came back but not the fee, and this was the certificate: "I certify that the picture submitted to me by Mr. Blank was not painted by me." The owner was sadly vexed at the imposition of those who sold the painting, but was also irritated at the loss of his $26 and wrote to the artist to that effect. But all he got was the extraordinary piece of statistics that out of 234 paintings submitted to him only 21 had been genuine. Apparently this thrifty artist makes a comfortable sum every year by certifying to pictures as fraudulent imitations of his own. But it may be observed that he does not ask they be destroyed. That, indeed, would be killing the goose of the golden eggs; for the first thing the owner would do would be to carry it back whence it came, or try to sell it elsewhere; in either case that same picture would be likely to turn up again in a few months to give the artist another fee. — *New York Times.*

Modern Architecture in Italy. — "Private architecture is certainly at a low ebb in Italy. This I feel sure of after interviews with many of those who practise the profession in Tuscany. They have absolutely no knowledge of interior conveniences, of the division of interior spaces. The exterior façades are first designed, with so many windows and doors, all symmetrically placed, and of the proper classical style. The interior is cut up to suit this design with not the slightest regard to the comfort of the future dwellers, and with no reference to their wants. What interest the artist feels in the inside of his house is confined to its decoration. Villari's famous lecture, delivered ten years ago nearly, declared that there was no knowledge among the Italians of the proper construction of public edifices. But I consider that his condemnation was even more applicable to their ignorance of private buildings." — *Extract from a Private Letter.*

Railway Rates in Mexico. — Mahogany, says the *Mexican Trader,* can be sent from Vera Cruz to New York, and then shipped to Mexico City, for less cost than it could be brought from Vera Cruz there direct. — *Timber Trades Journal.*

TRADE SURVEYS

The ordinary financial and commercial reports, as published in the leading journals of the country, throw but little light just now on the condition of the market. It is evident there is an increasing demand for money, and that money rates are advancing just at this time. The July net earnings on 123 roads show a slight falling off. The gross earnings on 120 roads for the year to date show an increase of over seven million dollars over same time last year. Crop reports are favorable. The export trade is satisfactory. The development of new markets for American products is progressing satisfactorily. There is but little fault to be found with market conditions generally, although there is not that sudden expansion which many distributors had anticipated. The strongest feature is the absence of heavy stocks, either in manufacturers', distributors' or retailers' hands. The weakest point is the extraordinary capacity available, which may be called upon at any time to crowd the market with stocks and depress prices at a time when a depression is likely to do much harm. The probabilities of such an evil are not very strong. Throughout the West, the warehouses are not loaded with goods, as has often been the case, and market requirements are kept steadily in view. At Chicago, Duluth, Omaha and some smaller and more remote points there is reported a very satisfactory distribution of all staple products. Middle-men at New York have recently said that more care is advisable in the crowding of stocks upon the Far Western markets. The growth of trade there and elsewhere is gradual but regular, and, if trade conditions are taken care of, there will be no fluctuations in prices, but few failures, and a steadiness in values which will impart confidence as it grows. That which a great many fear is another break in prices, resulting from just a little too much anxiety upon the part of producers, big and little, to avail themselves of the moderate improvement in progress. An investigation of the leading industries shows that there is a good, though not very profitable, distribution in progress. Rail-makers have sold fewer rails this year than for many years. Makers of structural iron have sold more iron than for years past, and have now a much larger amount of business booked than usual. Bridge-building is contemplated on a large scale. A great many engineering enterprises are now underway. The manufacturers of structural material will probably have rushing work for twelve months to come. Nail-makers have had a very good year both East and West. Crude-iron production has fallen still further. Steel production has increased, and will probably increase still more. The figures for the lumber season about closed show, as far as published, an increased output over last year. As to prices, it is a little too soon to give results. In building operations, a larger amount of capital has been expended in most of the larger cities than last year, but reports are too meagre in the smaller cities and towns to venture upon even an approximate statement. Lake ship-building has increased very much, and nearly all establishments engaged in turning out equipments for railroads will run full time for months to come. There is but little idle labor in the country, and strikes are almost unknown. Employers are more compactly organized than for many years, and have established methods and systems by which non-union labor can be secured on short notice in most of the industries. So far as reports have been received from a number of small towns throughout the States between Pennsylvania and Minnesota, there has been this year quite an increase in the number of small shops. In returning to the financial features of the situation, it is proper to remark that, in the opinion of those who are best qualified to speak, there will be no stringency in monetary matters, even though gold exports should increase, and the demand for money assume much more formidable proportions than at present. Business men, however, are loth to accept statements of this kind, having had bitter experience within the past two years, at times, in securing prompt accommodations. Values seem to have reached a basis where the chance of fluctuations is reduced to a minimum. Whether the business of the country can be done safely and satisfactorily on the present basis is a problem which only experience can answer. It is worth saying again, for the purpose of emphasis, that a great deal of enterprise and capital is still held in check over the uncertainty on this point. Business men are not entirely clear in their judgment as to whether a volume of business fifteen or twenty per cent greater than the present volume can be safely transacted on the present basis, in view of the fact that so much capital would be placed in temporarily unprofitable channels. It ought to be also said that there is a good deal of capital willing to seek employment in railroad building, but the experience of the past and the lack of positive encouragement for the future is acting as a barrier to immediate activity.

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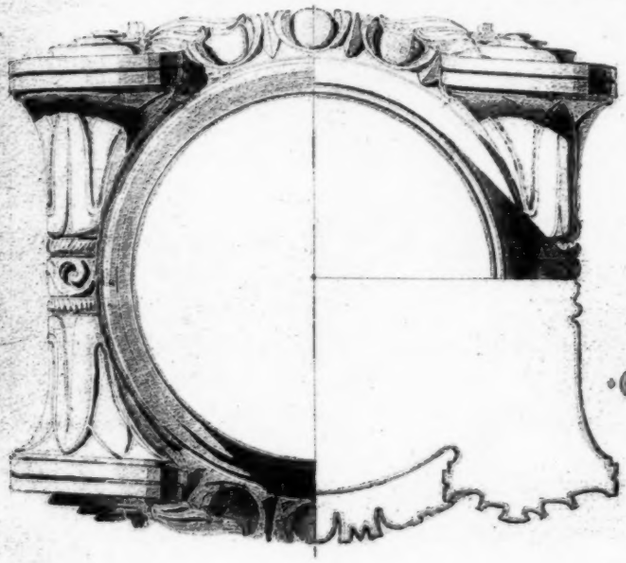

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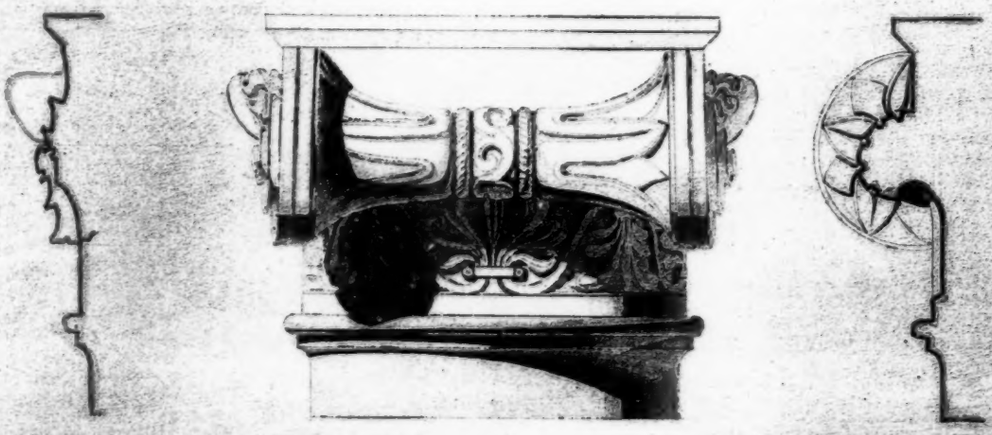

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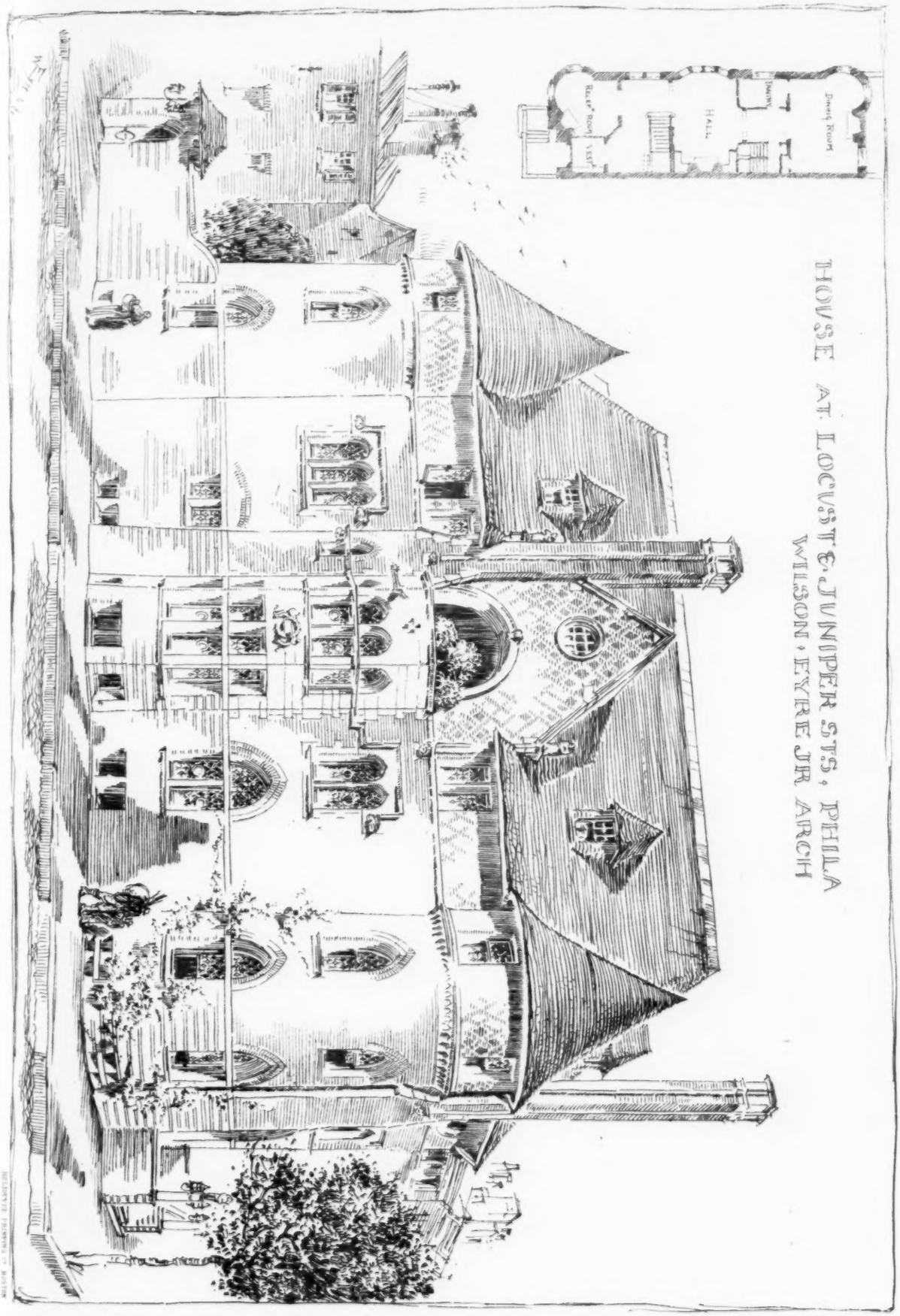

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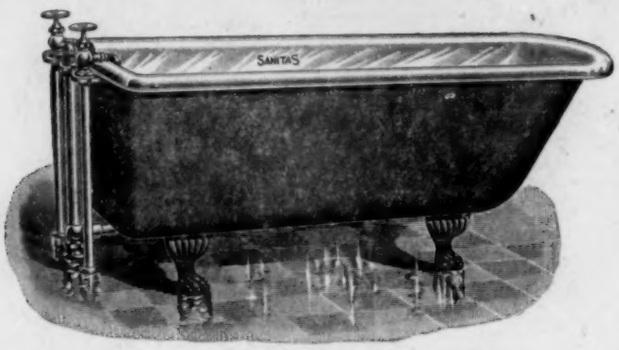

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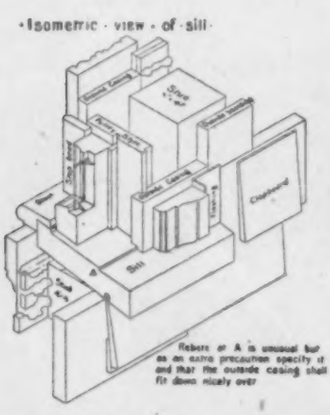

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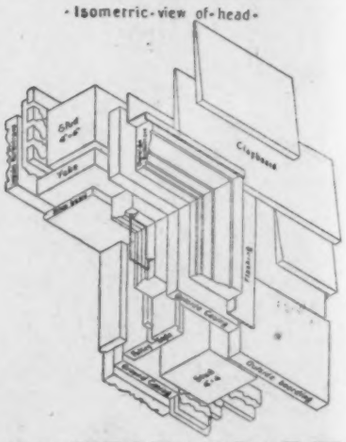

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Laths:				
Pine	@	2 25 @ 2 35	2 10 @ 2 25	2 75 @ 3 00
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Shingles:				
Pine, shaved ₱ M	5 00 @ 6 00	@	*Not sold.*	
Pine, sawed "	4 00 @ 5 00	@ 4 50	2 20 @ 3 00	
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Redwood ₱ 125	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	30" $35 @ 40
Cedar split ₱ M	@	@	*Not sold.*	24" 8 @ 21
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Mahogany, Baywood (Mexican)	@ 180 00	150 00 @ 160 00	150 00 @ 200 00	150 00 @ 250 00
" St. Domingo	@ 350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
Oak, red	@ 70 00	@ 50 00	32 00 @ 40 00	45 00 @ 55 00
" white	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	35 00 @ 50 00	57 50 @ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	35 00 @ 50 00	@ 65 00
Redwood	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
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Walnut, black	125 00 @ 150 00	85 00 @ 120 00	55 00 @ 100 00	50 00 @ 170 00
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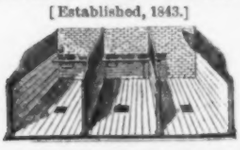

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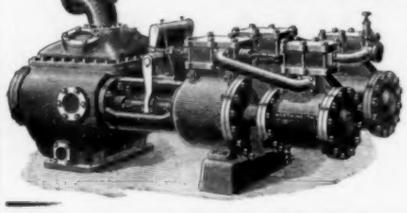

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Baltimore	37 00 @ 41 00	Anderson 14 00 @ 32 00	@ 55 00	Second " @ 13 00
Philadelphia	23 00 @ 24 00		45 00 @ 50 00	Third " @ 12 00
Trenton	22 00 @ 23 00		45 00 @	
Milwaukee			25 00 @	Dom. @ 65
Moulded:			60 00 @ 100 00	@ 85
Glens Falls Red Pressed	@ 37 00		30 @	
" " Buff "	@ 30 00		35 @	
" " Moulded Red & Buff	45 00 @ 70 00		55 00 @ 65 00	
Enamelled: *Imp.*				
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" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 80 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	3 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	Josson
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	2 60 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	3 90 @ 3 25
" " (Hanover)	2 50 @ 3 00		*Not sold.*	2 75 @ 2 85
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	2 70 @ 3 00
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Tell	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30
Chicago Lime in bulk		St. John 1 60	55 @	White Mash
Wisconsin Lime			60 @	1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	1 00 @ 1 00
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ *bush*	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				75 @ 90
Bedford	45 @ 1 25	95 @ 1 00	50 @	Richmond 75 @ 1 50
Joliet	@ 1 00		35 @ 55	₱ Perch @ 4 5
Lemont	@		35 @ 60	
Serpentine	@	10 50 per ton	@ 1 00	

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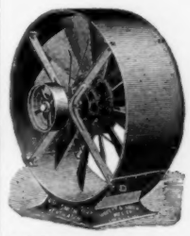
Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in.th.10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	}
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	55 @ 1 00
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				2 30 @ 3 00
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	3 25 @ 3 75
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	1 50 @ 10 25
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	225 @ 4 00
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	00 @ 4 65
" " Chapmans	@	@	7 30 @ 8 00	5 50 @ 8 00
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	@ 25 00
Tiles, Am ...℔ M.	@	@	*Not Sold.*	6 00 @ 6 75
N. Peach Bottom, warranted unfading	@	@	@	
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	42 @ 43	57 @ 60	@ 60
" " boiled (℔ gal.)	58 @ 65	45 @ 46	60 @ 63	@ 63
Turpentine (℔ gal.)	36 @ 37	@ 35	51 @ 51	@ 44
Varnish, coach (℔ gal.)	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac (℔ gal.)	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting (*dry*)	75 @ 1 00	1 @ 1½	1 @ 1½	¾ @ 1
Paris white, (Eng.) (*dry*)	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am (*dry*)	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask
Butts: 4" x 4" ...(℔ doz. pairs.)				2 90 (all kinds.)
Plain	@ 1 00	@ 1 20	@ 90	@ 90
Japanned	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Acorn, Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 75
Ball Tip, Boston Finish ...(℔ pair.)	@ 65	@ 50	*Not Sold.*	48 @ 50
Bronze metal	@ 1 90	plain 1 65	2 00 @ 3 25	@ 1 25
Brass (for cupboards.)	@ 10	@ 10	@ 12	@ 1 00
Ebony	@	@	@	@ 35
Apple wood	@	@	@	37 @ 1 00
Knobs: (℔ *set.*)				
Mineral, best	@ 8	@ 8	8 @ 10	@ 08
Lava	@ 50	@ 75	65 @ 80	*Not Sold.*
Hemacite	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Porcelain	@ 30	@ 10	25 @ 30	@ 25
Glass, solid	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, silvered	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:	@	@	13 @ 16	13½ @ 16
Sheet Lead	@	@ 7½	@ 7	@ 6½
Lead Pipe	@	@ 6½	@ 6½	6 @ 6
Iron:				
I-Beams, up to and including 36 ft.	3 3-10 @ 3½	@ 3 1-10	@	@ 2 8-10
I-Beams, over 30 ft. ¼, ½, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 1-10	3 20 @ 3 70	@ 2 8-10



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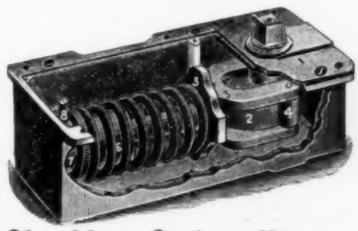

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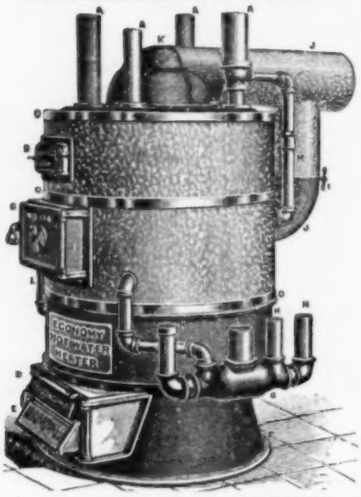

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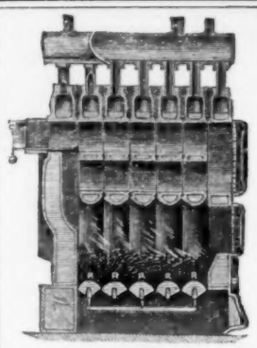

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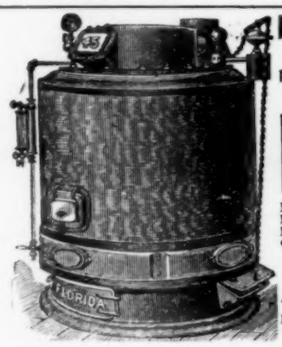

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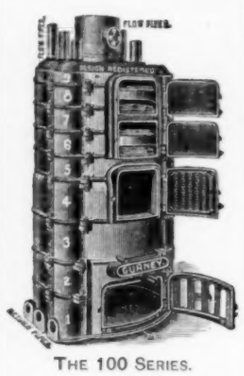

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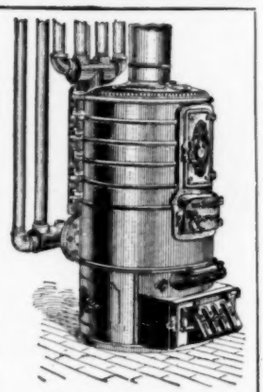

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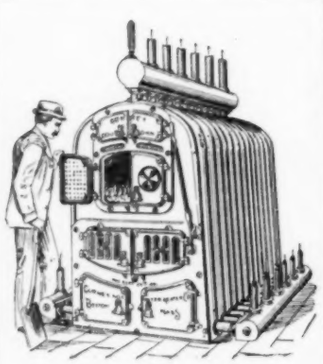

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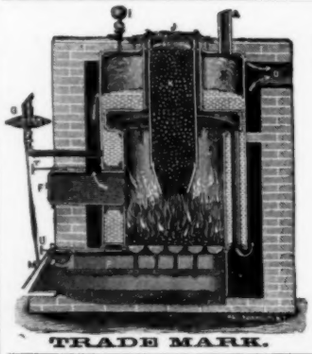

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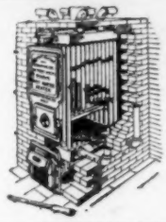

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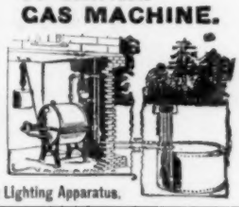

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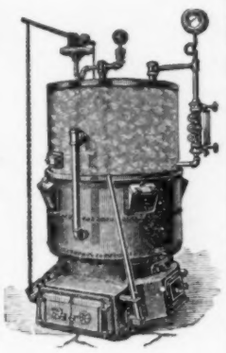

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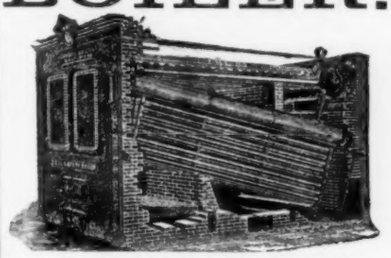

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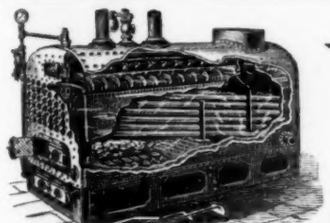

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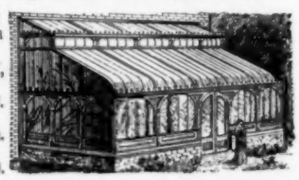

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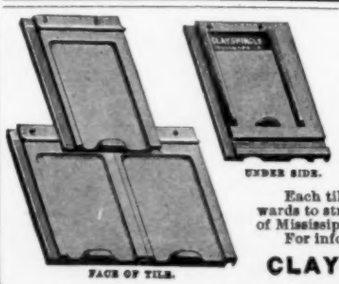

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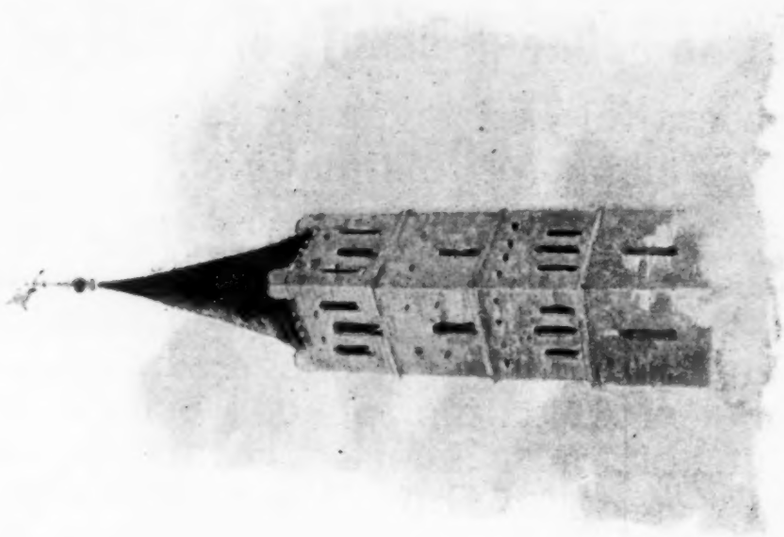

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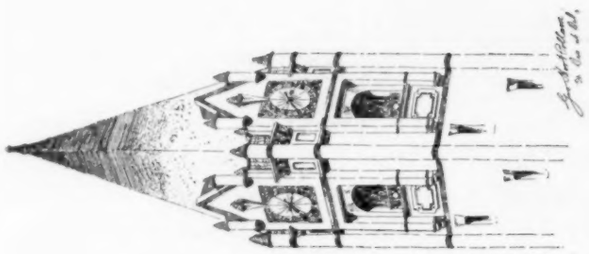

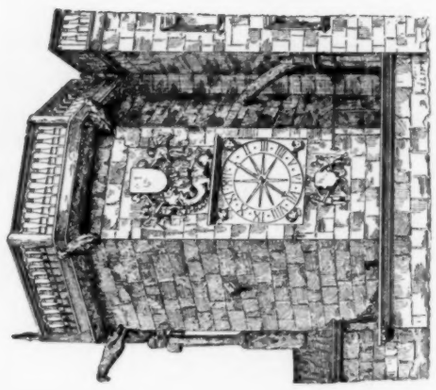

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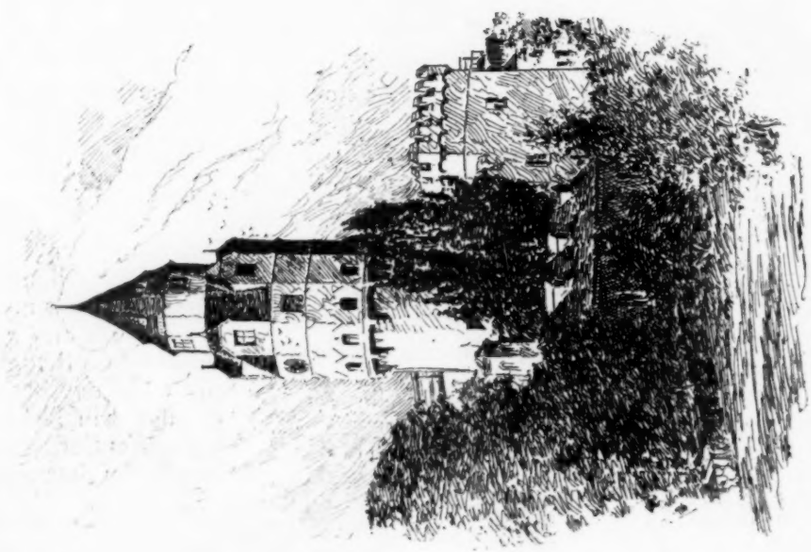

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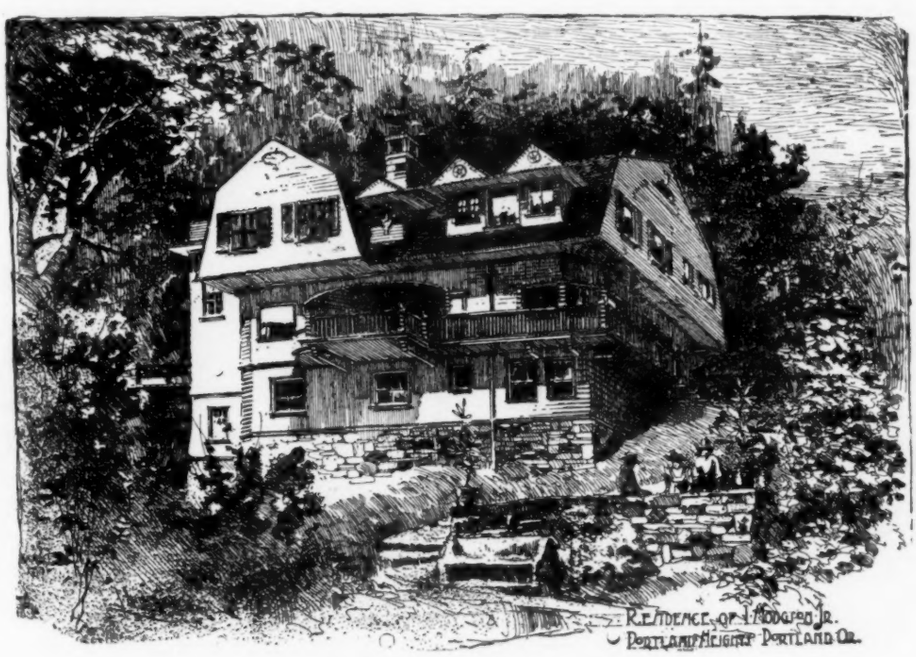

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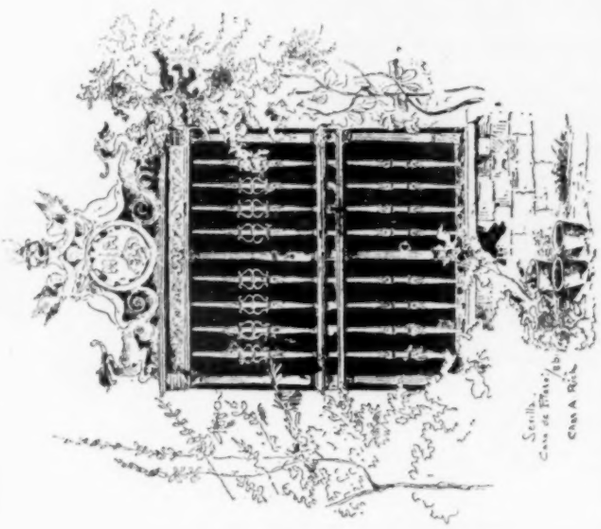

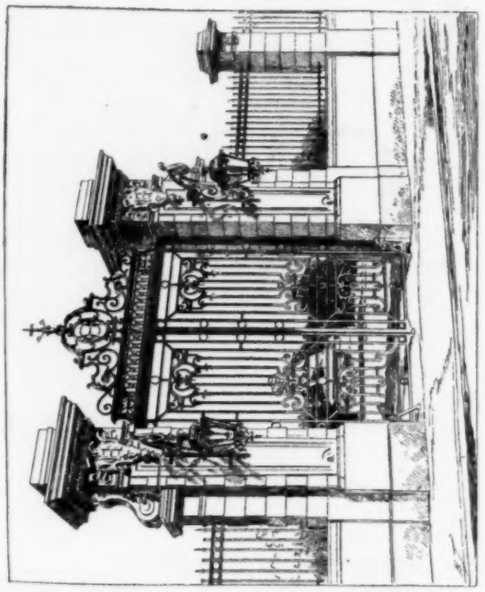

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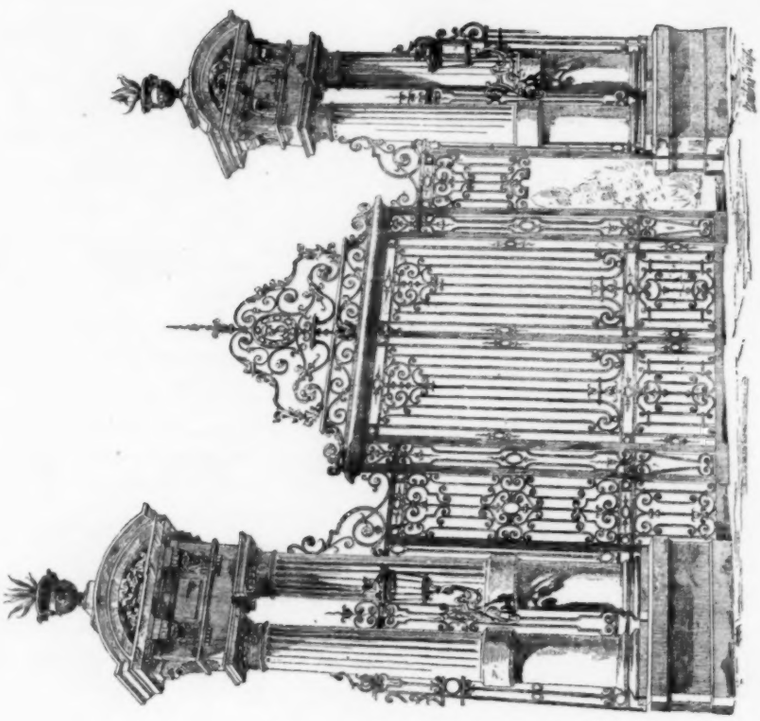

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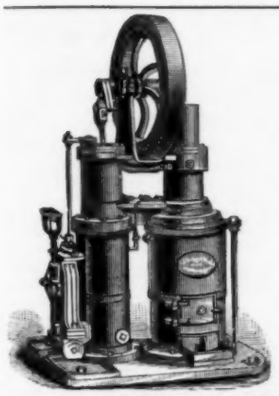

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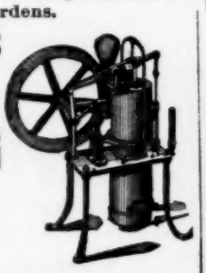

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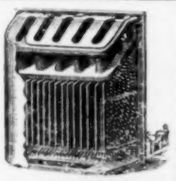

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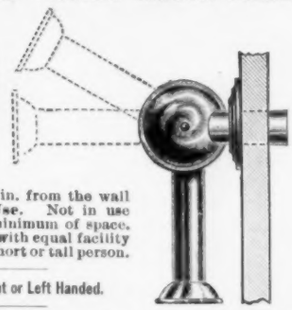

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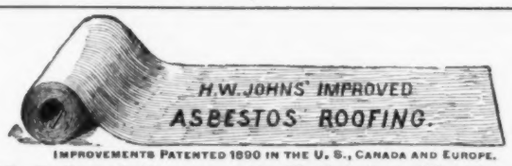

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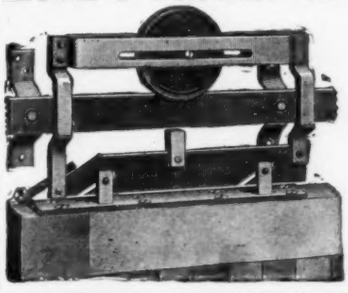

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[*This Table localizes only the main groups. For a full enumeration of advertisements see Classified Index on pages vii, xxv, and xxvi.*]

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I. P. FRINK (New York, N. Y.), Reflectors. Page 2, Cover.

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475,354. Floor-Arch.—Richard L. Stone, Chicago, Ill.

475,356. Door-Spring. — Hooper B. Straut, Lincoln, Neb.

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475,371. Water-Closet Cistern. — George W. Aldrich and James Hueston, Brooklyn, N. Y.

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475,489. Flushing-Cistern or Tank for Water-Closets.—John Demarest, New York, N. Y.

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From Antwerp. — Steamer "*Chicago*," 2 blocks marble, order. Steamer "*Belgenland*," 2,000 barrels cement, order. Steamer "*Friesland*," 630 barrels cement, Bank of British North America; 2,750 do., order.

From Bremen. —Ship "*Union*," 4,050 cakes asphalt, Gabriel & Schall; 850 barrels Portland cement, order.

From Caen. — Bark "*Haidee*," 140 blocks stone, Ellin, Kitson & Co.

From Catania.—Steamer "*Belgravia*," 3,483 blocks asphalt, order.

From Dorchester, N. B. — Schooner "*Ada S. Allen*," 72 pieces building stone, G. P. Sherwood.

From Glasgow. — Steamer "*State of Nevada*," 7 cases granite, E. C. Willison; 26 do., Davidson's Sons' Marble Co.; 163 do., Austin, Baldwin & Co.; 17 blocks stone, G. P. Sherwood.

From Hamburg. — Steamer "*Sorrento*," 1,000 barrels cement, order. Steamer "*Gothia*," 6 cases stone, Markt & Co. Steamer "*Virginia*," 10 casks cement, Otto Gerdan. Steamer "*Mab*," 1,008 casks cement, Baetjer & Meyerstein; 560 do., Gabriel & Schall; 840 do., E. Thiele.

From Havana. — Steamer "*Mexico*," 170 bags asphalt, Balsells & Co.

From Hillsboro, N. B.—Schooner "*D. J. Sawyer*," 571 tons white rock plaster, Jed Frye & Co.

From Liverpool. — Steamer "*City of Chicago*," 201 tons stone, Alden Speasis Louis Co. Steamer "*Runic*," 1 case polished granite, 42 hard wood logs, order.

From London. — Steamer "*Canada*," 500 casks cement, Bank of British North America; 2,000 do., Brown Bros. & Co.; 1,000 do., Ladenburg, Thalman & Co.; 500 do., C. J. Stevens; 1,750 do., 25 do., order.

From Manzanilla. — Steamer "*Chas. A. Gilberg*," 196 logs cedar, Thos. J. Owen & Co.; 817 mahogany boards, Bonnear Mahogany Co.

From Marseilles. — Bark "*Anna*," 298 1-5 tons asphalt, E. H. Wootton; 480 tons crude plaster, order.

From Rotterdam. — Steamer *Edam*," 1,300 casks cement, E. Thiele.

From Santa Cruz.—Bark "*Saron*," 2,133 logs cedar, 179 do. mahogany, order.

From St. John, N. B. — Schooner "*Ella Maud*," 1,894 barrels lime, 10,000 laths, Scammell Bros.

From Tampico. — Steamer "*City of Alexandria*," 2 barrels asphalt, Perkins & Co.

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From Tuspan. — Steamer "*City of Alexandria*," 22 bundles asphalt, E. Gogorca & Co.

From Vera Cruz. — Steamer "*City of Alexandria*," 36 blocks marble, O'Kelly & Co.; 107 bags asphalt, Seeger-Guernsey Co.

From Windsor, N. S. — Schooner "*Phœnix*," 700 tons lump plaster, H. H. Wotherspoon. Schooner "*Calabria*," 840 tons lump plaster, J. F. Whitney & Co. Bark "*George Davis*," 1,021 tons lump plaster, J. F. Whitney & Co. Schooner "*Gypsum Princess*," 1,185 tons lump plaster, J. F. Whitney & Co. Schooner "*Walleda*," 508 tons lump plaster, J. F. Whitney & Co.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[*Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.*]

ALTERATIONS.

Brooklyn, N. Y.—*Fulton St., Nos.* 2053-2055, 2 three-st'y brick stores and dwells., gravel roofs, one-st'y brick rear extension, gravel roof, and other alterations; cost, $3,000; owner, W. J. Leach, 1103 Fulton St.; architects, I. D. Reynolds & Son, 363 Fulton St.

Fourth Pl., s s, 120' w Smith St., three and one st'y brick chapel and Sunday School, terra-cotta tile roof, to be raised and other alterations made; cost, $6,000; owner, South Congregational Church, Court St., cor. President St.; architect, F. Charles Merry, 13 Astor Place, New York City.

Washington St., No. 176, four-st'y brick and stone loft building, tin roof, internal alterations; cost, $5,000; owner, Newman Estate, 176 Washington St.; architect, J. G. Glover, 186 Remsen St.

Throop Ave., s e cor. Madison St., four-st'y brick school-house, tin roof, four-st'y brick extension, tin roof; cost, $52,000; owner, Board of Education, 131 Livingston St.; architect, J. W. Naughton, 131 Livingston St.

Camden, N. J.—*Linden St.*, n e cor. Eighth St., alterations to store for T. M. Moore.

Chestnut St., cor. Eighth St., alterations and additions to brick dwell.; owner, J. E. Gorman.

North Third St., alterations to dwell. for W. B. Smith.

Kaighn Ave., No. 445, alterations and additions to dwell.; owner, W. H. Flanagan.

Line St., foot of, additions to the office of the Camden Iron Works; contractor, Thomas J. Harbach.

Friends Ave., Nos. 210-212, additions to two frame dwells.; builder, John Corbitt, 915 South Fifth St.

Chicago, Ill. — V. Kontulk, one-st'y addition, 614 West Eighteenth St.; cost, $4,000.

The Moody Institute, two-st'y addition, 80 Pearson St.; cost, $15,000.

Western Electric Co., alterations and repairs, 259-275 South Clinton St.; cost, $15,000.

John Haskell, four-st'y addition, 3259 Union St.; cost, $6,200.

John Bradford, one-st'y addition, 259 Fremont St.; cost, $8,000.

West Chicago Street Railway, two-st'y addition to car-house, 1132-1141 Blue Island Ave.; cost, $40,000.

John N. J. Hilbert, two-st'y addition, 949 North Halsted St.; cost, $3,500.

John C. Wyman, alterations to front, 507 Dearborn Ave.; cost, $3,500.

G. Pahis, one-st'y addition, 766 Dans St.; cost, $3,000.

Dr. A. J. Baxter, addition and alteration, 44 Aberdeen St.; cost, $5,000.

(*Continued on page* xvii.)

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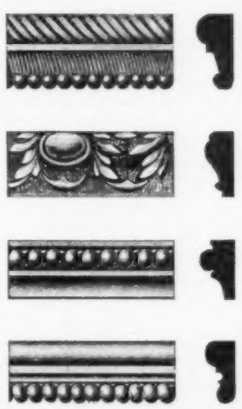

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Detroit, Mich.—G. W. Lloyd, rebuilding store for William Reid, West Larned St.; cost, $20,000.

New York, N. Y.—*West Fifty-first St., No.* 43, addition and partial new brownstone front to dwell. of Dr. John H. French; cost, $15,000; architect, J. Greenleaf Thorp.

Philadelphia, Pa.—*Wyalusing Ave., No.* 5324, two-st'y brick addition; builder, W. A. Patterson, 5330 Westminster Ave.

Green St., No. 441, four-st'y addition to laboratory; builders, Stewart Bros., 2527 North Fifth St.

Somerville, Mass.—*Evergreen Ave.*, alterations and additions to Universalist Church; builder, Thomas F. Farrington; architects, Loring & Phipps, Boston.

APARTMENT-HOUSES.

Boston, Mass.—*St. Botolph St*, near Albemarle St., Ward 11, 3 four-st'y brick apartments, flat roofs, 21′ x 65′ and 23′ x 65′; owner, E. B. Horn; builder, D. L. Rand.

West Chester Park, Nos. 195-197, Ward 11, 2 four-st'y brick apartments, flat roofs, 23′ x 64′ and 22.8′ x 53′; owner and builder, A. Knowlton.

Huntington Ave., junc. Northampton St., Ward 22, four-st'y brick apartments, flat roof, 80′ x 90′; owner and builder, E. Finnerty.

Brooklyn, N. Y.—*India St., Nos.* 43-49, 2 four-st'y brick flats, tar and gravel roofs; cost, $8,000 each; owner, W. H. Meserole, 49 India St.; architect, Hugh Roberts, 113 Kent St., Long Island City.

Chicago, Ill.—Robert Calvin, 2 two-st'y flats, Emerald Ave. and Seventy-fourth St.; cost, $5,200.

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BUILDING INTELLIGENCE.

E. P. Cronican, 2 two-st'y flats, 6608-6610 Ellis Ave.; cost, $7,000.

Henry Sass, 2 three-st'y flats, 21-23 Ray St.; cost, $9,500.

Henry Pardy, three-st'y flats, 558 West Fourteenth St.; cost, $4,000.

M. G. Carlson, two-st'y flats, 45 Oak Pl.; cost, $4,000.

Dr. Frank M. Stringfield, eight-st'y apartment-house, Wabash Ave. and Twelfth St.; cost, $125,000.

L. O. Goddard, three-st'y flats, 3640 Lake Ave.; cost, $10,000.

George Adram Hurd, four-st'y flats, 485 Bowen Ave.; cost, $7,000.

W. P. Canning, three-st'y flats, 4956 Forrestville Ave.; cost, $6,000.

S. J. Fitzpatrick, four-st'y flats, 4919 Vincennes Ave.; cost, $10,000.

George C. Fetter, 2 three-st'y flats, 4220-4222 Berkeley Ave.; cost, $20,000.

E. Schwenenrem, 2 two-st'y flats, 4919 Vincennes Pl.; cost, $10,000.

William McCarthey, three flats, 397 Taylor St.; cost, $4,000.

James M. Adams, two-st'y flats, 952 Elk Grove Ave.; cost, $3,600.

Dr. Charles A. Puscheck, seven-st'y flats, 230-232 La Salle Ave.; cost, $80,000.

Henry Sehl, three-st'y flats, 141 Burling St.; cost, $5,000.

Thomas Hayes, three-st'y flats, 8 Ambrose Ct.; cost, $4,000.

Ernest Koarpp, 2 three-st'y flats, 566-568 North Market St.; cost, $8,000.

H. Peats, 2 three-st'y flats, 1412-1414 Noble St.; cost, $15,000.

William Wermberg, 2 two-st'y flats, 6748-6750 Hon-Store.; cost, $6,500.

Detroit, Mich.—A. C. Varney & Co., 16 four-st'y brick flats, 88 Park St.; cost, $25,000.

New York, N. Y.—Two five-st'y brick flats, tin roofs; cost, $48,000; owners, Fay & Stacom, 337 Pleasant Ave.; architect, Charles Rentz, 153 Fourth Ave.

Bayard St., No. 16, six-st'y brick flat, tin roof; cost, $18,000; owner, John S. Norris, 46 West Sixty-fifth St.; architect, Thomas S. Godwin, 211 West Fifty-eighth St.

One Hundred and Seventh St., s s, 196′ w Fifth Ave., 4 five-st'y brick flats, tin roofs; cost, $128,000; owner, Luke Connors, 1029 East One Hundred and Thirty-sixth St.; architect, John Hauser, 1441 Third Ave.

East Fourth St., n e cor. Lewis Ave., five-st'y brick flat, tin roof; cost, $15,000; owner, John C. Heines, 307 East Fourth St.; architect, Franklin Baylles, 51 and 52 Bible House.

Thirtieth St., n e cor. Eleventh Ave., three-st'y brick flat, tin roof; cost, $15,000; owners, New York Life Insurance and Trust Co.; architects, Cleverdon & Putzell, 13 Astor Pl.

Broadway, e s, 50′ n One Hundred and Thirty-first St., five-st'y brick flat, tin roof; cost, $18,500; owners, Daniel and Christian Ruess, Broadway and One Hundred and Thirty-first St.; architect, Adolph Pfeiffer, 3068 Third Ave.

Monroe St., Nos. 95-99, 2 five-st'y brick flats, tin roofs; cost, $26,000; owners, Weil & Mayer, 227 East Sixtieth St.; architects, Schneider & Herter, 48 Bible House.

Monroe St., No. 97, five-st'y brick flat, tin roof; cost, $26,000; owners, Weil & Mayer, 227 East Sixtieth St.; architects, Schneider & Herter, 48 Bible House.

One Hundred and Thirty-fifth St., s s, 200′ e Seventh Ave., five-st'y brick flat, tin roof; cost, $19,000; owners, Dixon & Tracy, 2072 Seventh Ave.; architect, Andrew Spence, 163 East One Hundred and Twenty-fifth St.

Lenox Ave., w s, beg. 25′ s One Hundred and Thirteenth St., four-st'y brick flat, tin roof; cost, $15,000; owners, T. J. Jenkins & Bro., 227 West One Hundred and Fifteenth St.; architect, George M. Walgrove, 99 Nassau St.

Worcester, Mass.—*State St.*, four-st'y brick and stone apartment block; owner, Wm. Knowles; contractor, O. C. Ward.

South Irving St., four-st'y brick and stone apartment block; owner, Mrs. Martha Godinski; contractor, P. D. Sexton; architects, Barker & Nourse.

CHURCHES.

Chicago, Ill.—South Congregational Church, 9131-9137 Ontario Ave.; cost, $18,000.

Newberry, S. C.—The Methodists will build a church, to cost about $10,000.

New York, N. Y.—*Columbine Ave.*, 65′ w Monroe St., one-st'y stone and frame chapel, peak slate roof; cost, $4,500; owner, Reformed Church in America, Fordham, N. Y.; architect, E. K. Bourne, 18 Broadway.

FACTORIES.

Brooklyn, N. Y.—*Throop Ave.*, w s, 65′ n Lafayette St., two-st'y brick pattern factory, tin roof; cost, $3,100; owner, Butterick Pattern Co., Franklin Ave.; architect, S. E. Greenlane, 28 Hart St.

Thirty-ninth St., s s, 100′ w First Ave., five-st'y brick factory and storehouse, asbestos roof; cost, $35,000; owner, H. W. Johns Co., 79 Maiden Lane, New York City; architect, W. L. Stone, 79 Maiden Lane, New York City.

New York, N. Y.—*Norfolk St., No.* 35, six-st'y brick factory, tin roof; cost, $15,000; owner, Henry M. Greenberg, 205 Henry St.; architects, Horenburger & Straub, 122 Bowery.

Rider Ave., w s, 768′ s One Hundred and Forty-fourth St., two-st'y brick factory, tin roof; cost, $35,000; owner, N. Y. Lighting Co., Boston, Mass.; architect, Wm. H. Chapman, 620 Atlantic Ave., Boston, Mass.

Fourth St., n e cor. Mercer St., six-st'y brick factory, tin roof; cost, $75,000; owner and architect, Albert Wagner, 76 East Ninety-second St.

One Hundred and Sixty-first St., n s, 150′ e Courtland Ave., two-st'y brick factory, tin roof; cost, $6,000; owner, Gustav Buehler, 624 East One Hundred and Sixty-second St.; architect, C. F. Lohse, 2055 Third Ave.

HOSPITALS.

Houston, Texas.—The Sisters of Charity intend building a three-st'y brick hospital, to cost about $20,000.

HOTELS.

Chicago, Ill.—W. F. Corbin, two-st'y hotel, 6322-6324 Madison Ave.; cost, $12,000.

L. A. Silbert, two-st'y hotel, 6330-6334 Madison Ave.; cost, $60,000.

Congress Hotel Co., ten-st'y hotel, 207-221 Michigan Ave.; cost, $1,000,000.

James F. Burkes, three-st'y hotel, 840-848 Sixty-third St.; cost, $6,500.

A. B. Wilcox, three-st'y hotel, 5811-5813 Madison Ave.; cost, $14,000.

F. A. Berry, three-st'y hotel, 198-210 Seventy-sixth St.; cost, $9,000.

New York, N. Y.—*West Eighteenth St., Nos.* 2, 4, 6, one-st'y brick building as restaurant, connected with hotel, glass and iron roof; cost, $50,000; owner, Richard De Logerot, 128 Fifth Ave.; architects, Thorp & Knowles, 21 West Twenty-fourth St.

HOUSES.

Allston, Mass.—*Everett Square*, six double frame cottages, 30.6′ x 112′; owner, John S. Evans; builders, Allcock & McKay; also two double cottages, 30′ x 38.6′; cost, about $16,000; same owner and builders; architect, Eugene L. Clark, Boston.

Baltimore, Md.—E. Urbanski, three-st'y brick building, 625 South Bond St., bet. Aliceanna St. and Canton Ave.

George V. Smith, three-st'y brick building, s s Baltimore St., bet. Central Ave. and Lloyd St.

A. M. Zimmers, 3 three-st'y brick building, s s Fayette St., w Mount St.

Wm. Suess, 2 three-st'y brick buildings, n s Baltimore St., w High St.

F. D. Sauerwein, 5 three-st'y brick buildings, n s Edmondson Ave., beg. n w cor. Monroe St.

Jos. A. Pursley, 3 three-st'y brick and stone buildings, e s Maryland Ave., bet. Twenty-fourth and Twenty-fifth Sts.

C. M. Wartman, 9 three-st'y brick buildings, n s North Ave., w Druid Hill Ave.

Wm. H. Wehn, 20 two-st'y brick buildings, s s Carlyle Place, bet. Broadway and Belair Ave.

BUILDING INTELLIGENCE.

Dr. Thomas S. Whittle, three-st'y brick building, n e cor. Preston St. and Harford Ave.

Boston, Mass.—*Adams St.*, cor. Butler St., Ward 24, frame dwell., 25′ x 43′; owner, Clara A. Perkins.

Boynton St., near South St., Ward 23, three-st'y frame dwell., pitch roof, 25′ x 45.6′; owner, James Harrington; builder, T. D. Shand.

Dudley St., No. 479, *rear*, Ward 20, 2 three-st'y frame dwells., flat roofs, 18.6′ x 40′ and 25′ x 41′; owner, M. J. Cannon; builders, Chute & Bagloe.

Jackson St., near Boston St., Ward 15, three-st'y frame dwell., flat roof, 22′ x 40′; owner, J. W. Keyes; builders, McKay Bros.

Dustin St., near North Beacon St., Ward 25, frame dwell., 25′ x 35′; owner, J. Chalmers; builder, H. G. Etter.

Dakota Ave., near Geneva Ave., Ward 24, frame dwell., 25′ x 36′; owner and builder, D. E. Lynch.

Dorchester Ave., near Brook St., Ward 24, frame dwell., 28′ x 32′; owner and builder, I. Schurman.

Greenwich Place, near Dorchester Ave., Ward 24, three-st'y frame dwell., flat roof, 23′ x 33′; owner, Cornelius Leary; builder, A. Spence, Jr.

Percival Ave., near Adams St., Ward 24, frame dwell., 29′ x 42′; owners, C. M. Carter and C. N. Capen; builder, W. Peard.

Ballou Ave., nearly opp. Jones Ave., Ward 24, frame dwell., 24′ x 39′; owner and builder, J. E. Wilbur.

Waldee St., near Melville Ave., Ward 24, frame dwell., 29.6′ x 53.4′; owner, S. E. Young; builder, J. G. Eaton.

East Second St., Nos. 835-837, Ward 14, 2 three-st'y frame dwells., flat roofs, 21′ x 45.6′ owner and builder, J. H. White.

Mozart St., near Chestnut Ave., Ward 23, frame dwell., 22.8′ x 37.8.; owner, E. Regestein; builder, J. J. Flynn.

L St., Nos. 145-147, Ward 14, 2 three-st'y frame dwells., flat roofs, 21.6′ x 58.6′; owner and builder, S. W. Johnson.

Dorchester Ave., cor. Brook Ave., Ward 24, frame dwell., 30′ x 32′; owner and builder, I. Schurman.

Silver St., No. 66, Ward 13, three-st'y frame dwell., flat roof, 24.6′ x 45′; owner, James Walker; builders, Berry & Watson.

Jackson St., near Boston St., Ward 15, three-st'y frame dwell., flat roof, 25′ x 49.8′; owner, Mary F. Nolan; builder, H. M. Wallis.

(*Continued on page* xx.)

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BUILDING INTELLIGENCE.

Minden St., No. 112, *rear*, Ward 22, two-st'y frame dwell., flat roof, 24′ x 33′; owner, Mrs. S. Bluthardt.

Rosemont St., near Adams St., Ward 24, frame dwell., 26.6′ x 41′; owner, W. C. Walker; builder, H. B. Rankin.

East Ninth St., near L St., Ward 14, two-st'y frame dwell., flat roof, 26′ x 40′; owner and builder, C. R. Barstow.

Lyndehurst St., near Allston St. and near Washington St., Ward 24, two frame dwells., one 27′ x 46.2′, the other 25. x 37; owner of first, Mrs. M. J. Meade; builder, W. P. Jenkins; owner and builder of other, J. H. Beale.

Carl St., near Corey St., Ward 23, frame dwell., hip roof, 24′ x 32′; owner, Sara E. Wiltse; builder, G. S. Linden.

Algonquin St., near Washington St., Ward 24, frame dwell., hip roof, 33′ x 46′; owner and builder, G. D. Hill.

Chelsea St., near Putnam St., Ward 1, three-st'y frame dwell., flat roof, 21′ x 43′; owner, P. O'Connor; builder, T. Newby.

Humphrey Square, near Dudley St., Ward 20, frame dwell., 26′ x 56′; owner, O. L. Strout; builders, Holmes & Nichols.

Wigglesworth St., Ward 22, 5 three-st'y brick dwells., 20′ x 40′; owner and builder, D. W. Thomas.

Wheeler St., No. 33, Ward 16, three-st'y brick dwell., flat roof, 29.6′ x 53.6′; owner, J. C. Daly; builder, J. J. Flynn.

Brooklyn, N. Y. — *Steuben St.*, e s, 150′ s Park Ave., 3 four-st'y brick dwells., tin roofs; cost, $7,500 each; owner, John Stone; architect, W. H. Gaylor, 110 South Eighth St.

Huron St., s s, 100′ w Franklin Ave., 3 four-st'y brick dwells., gravel roofs; cost, $9,000 each; owners, architects and builders, Randall & Miller, 16 Bedford Ave.

Second Pl., n s, 125′ w Court St., 3 five-st'y brick dwells., tin roofs; cost, $40,000; owner, Geo. Wilkes, 88 First Pl.; architect, J. Jacobsen, 98 Maiden Lane, New York.

Hart St., s s, 75′ e Hamburg Ave., three-st'y frame dwell., tin roof; cost, $4,100; owner, Kaspar Kemmert, 161 Suydam St.; architect, E. Schrempf, 534 Bushwick Ave.

Nassau Ave., n s, 20′ e North Henry St., three-st'y frame dwell., tin roof; cost, $3,800; owner, John Schmeisle, 56 Manhattan Ave.; architect, F. J. Berlenbach, Jr., 260 Graham Ave.

Diamond St., e s, 170′ s Norman Ave., three-st'y frame dwell., gravel roof; cost, $5,000; owner, Stephen Hannan, 241 East Twentieth St., New York City; architect, John Bruns, 27 Sheffield Ave.

Suydam St., s s, 150′ e Hamburg Ave., three-st'y frame dwell., tin roof; cost, $3,800; owner and builder, Peter J. Brahm, 1054 Willoughby Ave.; architect, E. Schrempf, 534 Bushwick Ave.

Sixth Ave., w s, 40′ s Nineteenth St., 2 three-st'y brick dwells., tin roofs; cost, $4,000 each; owner, L. E. Blott, 328 Fifteenth St.; architect, J. A. Hoffman, 328 Fifteenth St.

Fourth St., s s, 190′ e Smith St., three-st'y frame dwell., tin roof; cost, $3,400; owners, S. J. Cotter and S. J. Carey, on premises; architect, Stephen Hazzard, 175 Pacific St.

Hancock St., s s, 100′ w Ralph Ave., 17 three-st'y brick dwells., tin roofs; cost, $4,500 each; owner, architect and builder, F. C. Swimm, 358 Putnam Ave.

Camden, N. J. — *Girard Pl.*, n s, bet. Sixth St. and Broadway, 2 two-st'y brick dwells.; owner and builder, Wm. T. Bailey, office New Jersey Trust Building, Market and Third Sts.

Berkeley St., n w cor. Broadway, three-st'y brick dwell.; owner, Lewis Holt.

Kaighn Ave., e Mt. Ephraim Pike, two-st'y brick dwell.; builder, Isidor Green, 1410 Louis St., Liberty Park.

Chestnut St., No. 743, frame dwell.; owner, Jos. M. Ross, 786 Walnut St.

Spruce St., No. 632, two-st'y brick dwell.; owner, Howell Sharp, 634 Spruce St.

Chicago, Ill.—J. L. Cochran, 2 two-st'y dwells., 1039 Winthrop Ave.; cost, $6,000.

J. J. McCauley, 4 two-st'y dwells., 7751-7757 Wright St.; cost, $23,000.

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BUILDING INTELLIGENCE.

J. C. Jones, 3 three-st'y dwells., 4233-4237 Calumet Ave.; cost, $18,000.

James F. O'Brien, three-st'y dwell., 4016 Grand Boulevard; cost, $8,500.

Andrew Morbeck, two-st'y dwell., Pine and Wolcott Sts.; cost, $3,000.

Dorchester, Mass.—Frame dwell., 30′ x 50′; owner, Mr. Baxter; contract to be let; architects, Loring & Phipps, Boston.

Tremlet Park, frame dwell., 32′ x 32′; owner, J. Brodie; contract to be let; architects, Loring & Phipps, Boston.

Montreal, Can. — *Roy Lane*, three-st'y dwell.; cost, $6,000; owner, Mrs. P. J. Durack; architect, W. H. Hodson, 242 St. James St.

Mayor St., four-st'y dwell.; cost, $5,800; owner, J. E. J. Savage; architect, W. McLea Walbank, 214 St. James St.

Champ-de-Mars St., four-st'y dwell.; cost, $10,000; owner, Mrs. Jos. Lemen; architect, Gaudias Simard, 1585 St. Catherine St.

Sherbrooke St., dwell.; cost, $6,800; owner, E. Rothwell; architect, Charles Chaussé, 107 St. James St.

Sherbrooke St., dwell.; cost, $5,000; owner and architect, Chas. Chaussé, 107 St. James St.

St. Denis St., 8 four-st'y cut-stone dwells.; cost, $9,500; architect, H. R. Falbort, 7 Place d'Armes.

Dorchester St., four-st'y dwell.; cost, $10,000; owner, G. Groudy; architect, J. A. P. Bulman, 156 St. James St.

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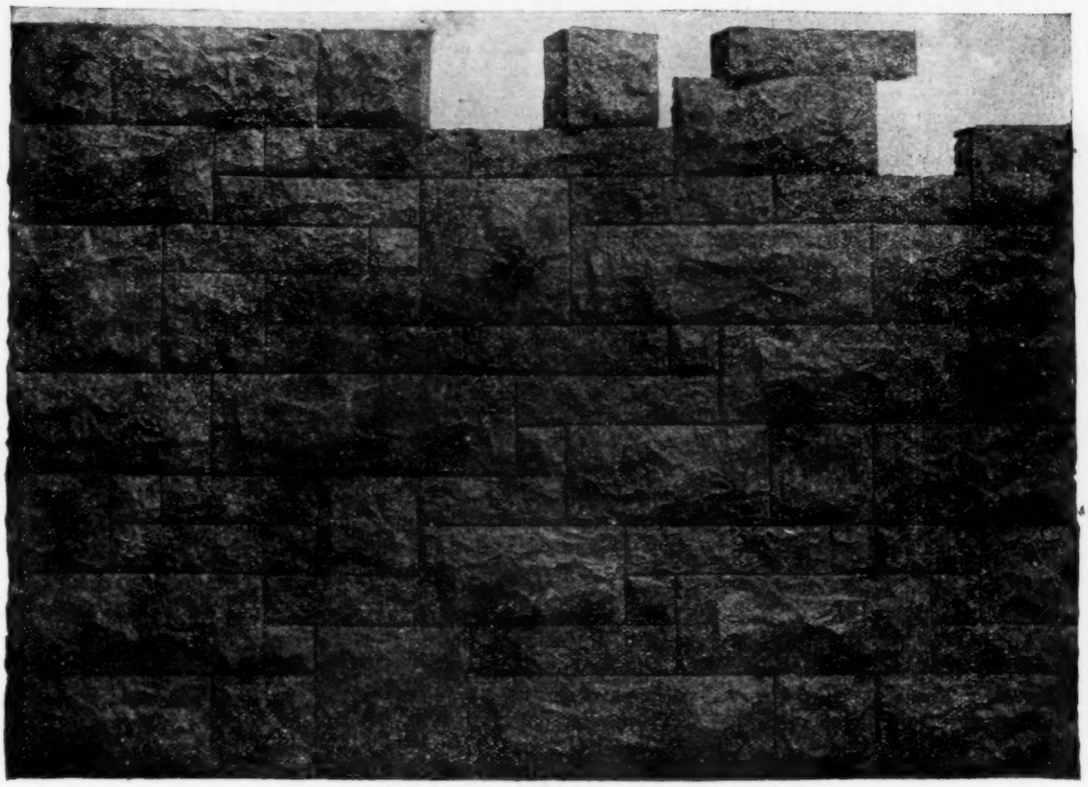

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Warerooms, 1180 BROADWAY. Factory 157-163 WEST 29th STREET, NEW YORK, N. Y.

BUILDING INTELLIGENCE.

Somerville, Mass. — *Henry Ave.*, near Highland Ave., frame dwell., 27′ x 32′; owner, E. G. Swift; builders, E. G. Swift & Co.

Fanning Ave., near Highland Ave., frame dwell., 27′ x 32′; owner, E. G. Swift; builders, E. G. Swift & Co.

Dickinson St., frame dwell., 24′ x 30′; owner and builder, James Elston.

Robinson St., frame dwell., 25′ x 30′; owner, Mary Blaisdell; builders, S. & C. H. Williams.

Robinson St., frame dwell., 28′ x 51′; owner, John Crompton; builder, W. E. Rose.

Rodger Ave., five frame dwells., each 24′ x 43′; owner and builder, Joseph Miller.

Frederick and Rodger Aves., frame dwell., 24′ x 43′; owner and builder, Joseph Miller.

Alpine St., frame dwell., 20′ x 27′; owner and builder, Frank Gould.

Tremont St., near Webster Ave., three-st'y frame dwell., flat roof, 26′ x 40′; owner, Julia Hickey; builder, W. P. Waterman.

Thorpe Pl., near Highland Ave., three frame dwells., 22′ x 33′; owner and builder, S Blaikie.

Somerville Ave., two frame dwells., 26′ x 35′; owner and builder, S. Blaikie.

Hanson St., frame dwell., 16′ x 33′; owner and builder, Thomas Cotter.

Adrian St., frame dwell., 22′ x 40′; owner, Homer C. Holt; builder, D. C. Smith.

Atherton St., cor. Central St., frame dwell., 25′ x 33′; owner, H. W. P. Colson; builder, John W. Prevost.

Harrison St., cor. Kent St., three-st'y frame dwell., 30′ x 39′; owner, J. H. Timmins; builder, R. H. Collupy.

Worcester, Mass. — *Hadley St.*, two-st'y frame dwell.; owner, Geo. F. Brooks; contractors, G. S. & H. G. Hadley; architects, Barker & Nourse.

Millbury St., three-st'y frame dwell.; owner, D. M. Norton; contractors, Yates & Delaney.

Eastern Ave., four-st'y frame dwell.; owner, J. J. Higgins; contractor, J. A. Kennedy.

Mill St., two-st'y frame dwell.; owner and contractor, H. A. Smith.

Jacques St., three-st'y frame dwell.; owner, John F. Chadwick; contractor, H. L. Putman.

Shattuck St., two-st'y frame dwell.; owner, W. H. Wiggin; architect, W. H. Harvey; contractor, W. E. Putnam.

Mason St., three-st'y frame dwell.; owner, E. A. Prentiss; contractor, W. G. Hadley.

Dover St., one-and-one-half-st'y frame dwell.; owner and contractor, G. M. Richardson.

BUILDING INTELLIGENCE.

Shattuck St., two-st'y frame dwell.; owner, J. A. Keeler; contractor, C. A. Vaughn.

Stafford St., one-and-one-half-st'y frame dwell.; owner, Peter O. Toole; contractor, C. A. Stone.

Tufts St., three-st'y frame dwell.; owner, John Skelborne; contractor, C. A. Stone.

Bloomingdale St., two-st'y frame dwell.; owner and contractor, G. Fournier.

Harlon St., three-st'y frame dwell.; owner, Jos. S. Perry; contractor, Wm. O. Burns.

Washington St., two-st'y frame dwell.; owner and contractor, H. B. Pender.

Alvardo Ave., two-st'y frame dwell.; owners and contractors, Ward & Blanding.

Alvardo Ave., two-st'y frame dwell.; owners and contractors, Ward & Blanding.

Eastern Ave., three-st'y frame dwell.; owner, E. J. Keeler; contractors, Nilson & Silven.

Millbury St., three-st'y frame dwell.; owner, D. M. Norton; contractors, Yates & Delaney.

Eastern Ave., four-st'y frame dwell.; owner, J. J. Higgins; contractor, J. A. Kennedy.

Windsor St., two-st'y frame dwell.; owner, Horace Hobbs; contractor, H. B. Pender.

John St., two-st'y frame dwell.; owner and contractor, J. P. Taber.

Austin St., four-st'y brick and stone block; owner and contractor, J. E. Stearns; architects, Barker & Nourse.

OFFICE-BUILDINGS.

New York, N. Y. — *Broadway, Nos.* 250 to 254, and *Murray St., Nos.* 5 and 7, twelve-st'y brick office-building, cement, concrete roof; cost, $750,000; owner, Postal Telegraph Cable Company, 1 Broadway; architects, Geo. Edw. Harding & Gooch, 40 Exchange Pl.

Union Square, No. 33, twelve-st'y granite, stone, brick and terra-cotta office-building; owners, Decker Bros.; architect, Alfred Zucker.

SCHOOL-HOUSES.

Attleboro, Mass. — Frame school-house, 50′ x 70′; contract to be let; architects, Loring & Phipps, Boston.

Everett, Mass. — Brick and stone high school, 72′ x 90′; to contain fourteen rooms and exhibition hall; contract to be let; architects, Loring & Phipps, Boston.

Nashville, Tenn. — The building of a school, to cost $12,000, is contemplated.

STABLES.

Baltimore, Md. — H. R. Linthicum will build three-st'y brick private stable on Conway St., bet. Howard and Sharp Sts.

BUILDING INTELLIGENCE.

Boston, Mass. — *Duncan St.*, near Ruggles St., Ward 19, frame stable, 37′ x 67′; owner, R. T. Paine; builder, G. W. Pope.

Brookline, Mass. — *Aspinwall Ave.*, frame stable, 22′ x 40′; owner, J. E. E. Rothery; architects, Loring & Phipps, Boston.

Brooklyn, N. Y. — *Butler St., Nos.* 352 to 360, two-st'y brick stable, gravel roof; cost, $5,000; owners, Roke Bros., 350 to 360 Butler St.; architect, Carl F. Eisenach, 59 Court St.

Jefferson Ave., n s, 150′ e Bedford Ave., four-st'y brick stable, gravel roof; cost, $18,596; owner, Thos. Washburne, 1177 Bedford Ave.; architect, J. G. Glover, 186 Remsen St.

Van Buren St., n s, 165′ w Reid Ave., one-and-two-st'y brick stable, tin roof; cost, $3,000; owner, A. H. Van Hoesen, 63 Reid Ave.; architect, Ernest Dennis, 115 Himrod St.

Chicago, Ill. — William H. Thompson, barn, 25 Delawan Pl.; cost, $4,000.

William H. Smith, two-st'y barn, 3756 3758 Dearborn St.; cost, $3,000.

New York, N. Y. — *Sixty-ninth St.*, s s, 100′ West End Ave., three-st'y brick stable, tin roof; cost, $12,500; owner, Hubert Van Wagenen, 36 East Fifty-third St.; architect, Will A. O'Hea, 2564 Eighth Ave.

Horatio St., n s, 150′ e West St., one-st'y brick stable, gravel roof; cost, $3,500; owners, Hyman & Henry Sonn, 1038 Fifth Ave.; architect, Franklin Baylies, 51 and 52 Bible House.

First Ave., Nos. 2330-2332, two-st'y brick stable, tin roof; cost, $10,000; owner, Henry Berghorn, 401 East One Hundred and Nineteenth St.; architect, Andry Spence, 163 East One Hundred and Twenty-fifth St.

Nineteenth St., Nos. 155-157, six-st'y stable, tin roof; cost, $40,000; owner, William Williams, New Jersey; architect, J. E. Terhune, 47 Liberty St.

Sixty-sixth St., s s, 300′ e Amsterdam Ave., five-st'y brick dwell., tin roof; cost, $16,000; owner, John G. Peters, Jr., 142 West Sixty-sixth St.; architect, James W. Cole, 403 West Fifty-first St.

Eighty-ninth St., n s, 154′ 6″ w Amsterdam Ave., 3 two-st'y brick stables, tin roofs; cost, $36,000; owner, Edw. W. Bechell, 54 West Eighty-fourth St.; architect, F. A. Rooke, 247 West One Hundred and Twenty-fifth St.

Nineteenth St., n s, 149.3′ e Seventh Ave., six-st'y brick and stone stable; cost, $40,000; owner, W. Williams; architect, J. E. Terhune.

Eleventh St., n s, near North River, 3 four-st'y brick and stone stables and warehouses; cost, $30,000; owner, W. Van Tassel; architect, J. E. Terhune.

Forty-seventh St., s s, 150′ w First Ave., two-st'y brick stable, tin roof; cost, $18,000; owner, Phœnix Brewing Co., 2 West Forty-third St.; architect, Julius Munkowitz, 247 West One Hundred and Twenty-fifth St.

Sixty-sixth St., s s, 225′ w Eighth Ave., four-st'y brick stable, tin roof; cost, $18,000; owner, James B. Duke, Hotel San Remo; architect, Edw. L. Angell, 94 Liberty St.

Seventy-sixth St., n s, 100′ Park Ave., two-st'y brick stable, tin roof; cost, $13,500; owner, Henry E. Russell, 55 East Sixty-eighth St.; architects, McKim, Mead & White, 1 West Twentieth St.

Bond St., Nos. 35-37, 2 six-st'y brick stables, tin roofs; cost, $120,000; owners, Havens & Winters, 568 West One Hundred and Fifty-ninth St.; architect, Ralph S. Townsend, 1300 Broadway.

Somerville, Mass.—*Belmont Pl., No.* 9, frame stable, 20′ x 20′; owners and builders, W. L. & H. S. Waugh.

Lowell St., frame stable, 31′ x 32′; owner, George E. Whittum; builder, Wm. E. Jones.

Worcester, Mass.—*Tufts St.*, one-st'y frame stable; owner, J. Shelhorne; contractor, C. A. Stone.

STORES.

Brooklyn, N. Y. — *Belmont Ave.*, s e cor. Logan St., three-st'y frame store and dwell., tin roof; cost, $5,000; owner, Richard Geary, 576 Madison St.; architect, Wm. Godfrey, 576 Madison St.

Halsey St., n e cor. Evergreen Ave., three-st'y frame store and dwell., tin roof; cost, $3,500; owners and builders, Cozine & Gascoine, 1223 Bushwick Ave.; architect, Chas. E. Austin, 1223 Bushwick Ave.

Evergreen Ave., n w cor. Eldert St., 4 three-st'y frame stores and dwells., tin roofs; cost, $4,000 each; owner and builder, Henry Loeffler, 788 Myrtle Ave.; architect, Henry Loeffler, 788 Myrtle Ave.

Belmont Ave., n w cor. Thatford Ave., 3 three-st'y brick stores and dwells., gravel roofs; cost, $18,000; owner, Louis Ratner, Belmont Ave. and Osborne St.; architect, Chas. Infanger, 126 Van Siclen Ave.

Third Ave., w s, 75′ s Forty-seventh St., three-st'y brick stores and dwells., tin roofs; cost, $6,000; owner, Angela Vuona, Third Ave., near Forty-eighth St.; architects, H. L. Spicer & Son, Third Ave. and Fifty-third St.

Putnam Ave., n w cor. Knickerbocker Ave., three-st'y frame store and dwell., tin roof; cost, $6,000; owner, Wm. L. Coffin, 1988 Fulton St.; architect, Wm. Field, 1039 Gates Ave.

Ralph St., n s, 80′ e Knickerbocker Ave., 3 two-st'y frame stores and dwells., tin roofs; cost, $2,000 each; owner, Edward Thompson, 1442 Myrtle Ave.; architect, J. Thompson, 22 Mulberry St., Yonkers, N. Y.

Irving Ave., e s, 75′ n Harman St., three-st'y frame store and dwell., tin roof; cost, $4,700; owner, A. Bielinsky, 146 Himrod St.; architect, F. J. Lessing, 91 Ralph Ave.

Evergreens Ave., e s, 25′ s Jefferson St., 3 four-st'y frame stores and dwells., tin roofs; cost, $7,000 each; owner, architect and builder, Jacob Manneschmidt, 966 Myrtle Ave.

Evergreen Ave., s e cor. Jefferson St., four-st'y frame store and dwell., tin roof; cost, $7,000; owner, architect and builder, Jacob Menneschmidt, 966 Myrtle Ave.

Hopkins St., n w cor. Sumner Ave. and Broadway, four-st'y brick store and dwell., tin roof; cost, $9,000; owner, Wm. Ahnemann, 764 Broadway; architect, Th. Engelhardt, 905 Broadway.

Myrtle Ave., junc. Grove St., three-st'y frame store and dwell., tin roof; cost, abt. $5,000; owner and architect, Geo. Damen, 484 Decatur St.

Myrtle Ave., s s, 55′ w junc. Grove St., three-st'y frame store and dwell., tin roof; cost, abt. $5,000; owner and architect, Geo. Damen, 484 Decatur St.

Thirty-fourth St., n e cor. Third Ave., 7 four-st'y brick stores and dwells., gravel and felt roofs; cost, $43,000; owner, architect and builder, G. R. Brown, 26 Court St.

Myrtle Ave., n e cor. Harman St., three-st'y frame store and dwell., tin roof; cost, $3,500; owner, E. E. Bunce, 27 Stuyvesant Ave.; architect, Ernest Dennis, 115 Himrod St.

Irving Ave, n w cor. Himrod St., four-st'y brick store and dwell., tin roof; cost, $13,000; owner, Mr. Marquardt, Himrod St. and Central Ave.; architects, D. Acker & Son, Broadway and Flushing Ave.

Court St., n e cor. Pacific St., 2 five-st'y brick stores and dwells., gravel roofs; cost, $18,000; owner and builder, James F. Brush, 179 Seventh Ave.; architect, J. G. Glover, 186 Remsen St.

Myrtle Ave., junc. Grove St., s s, three-st'y frame store and dwell., tin roof; cost, abt. $5,000; owner and architect, Geo. Damen, 44 Court St.

Myrtle Ave., s s, 55′ w junc. Grove St., three-st'y frame store and dwell., tin roof; cost, abt. $5,000; owner and architect, Geo. Damen, 44 Court St.

Sixth Ave., 100′ n Twentieth St., four-st'y brick store and dwell., tin roof; cost, $6,000; owner, L. E. Blott, 328 Fifteenth St.; architect, J. A. Hoffman, 328 Fifteenth St.

Stone St., n e cor. Dumont Ave., 2 three-st'y frame stores and dwells., tin roofs; cost, $10,000; owner, A. Rapport, Stone St. and Blake Ave.; architect, Louit Danancher, 26 Watkins St.

Atlantic Ave., n s, 50′ e Hendrix St., four-st'y brick store and dwell., tin roof; cost, $8,500; owner, John Gruber, Schenck Ave., near Fulton St.; architect, Chas. Infanger, 126 Van Siclen Ave.

Chicago, Ill. — Dr. G. M. Chamberlain, three-st'y store and flats, 213-217 East Thirty-first St.; cost $60,000.

John Firsa, four-st'y store and flats, 723 Loomis St.; cost, $7,500.

A. H. McLennan, 15 three-st'y stores and flats, 6345-6347 Cottage Grove Ave.; cost, $60,000.

P. C. Donnal, store and flats, 1425 West Twenty-second St.; cost, $3,000.

A. Stranzepansky, two-st'y store and flats, 4503 Page St.; cost, $4,500.

August Tidholm, 2 four-st'y stores and flats, 3310-3312 Cottage Grove Ave.; cost, $25,000.

Milton Schueper, four-st'y store and flats, 151 Center St.; cost, $12,000.

Milo J. Kellogg, 6 two-st'y stores and flats, 217-225 West Jackson St.; cost, $13,000.

H. Strauss, three-st'y store and flats, 258 East Division St.; cost, $4,500.

Wm. D. McKay, 3 four-st'y stores and flats, 2005-2011 State St.; cost, $30,000.

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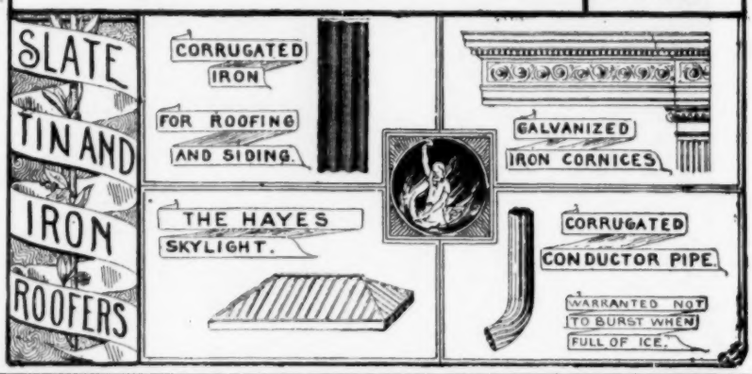

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BUILDING INTELLIGENCE.

Mrs. C. Lanf, three-st'y store and flat, 555 Lincoln Ave.; cost, $5,000.

Gust Martin, two-st'y store and flats, 4931 Ashland Ave; cost, $5,000.

G. S. Marks, two-st'y store and flats, 4815 Ashland Ave.; cost, $8,0000.

Louis Karehen, two-st'y store and flats, 756 North Ave.; cost, $4,000.

William J. English, 2 three-st'y stores and flats, 4723-4725 Halsted St.; cost, $20,000.

William Ohlhaber, 2 four st'y stores and flats, 365-367 West North Ave.; cost, $12,000.

F. Hensler, three-st'y store and flats, 5002 State St; cost, $5,000.

George R. Thorne, 2 three-st'y stores and flats, 200 Fifty-fifth St.; cost, $20,000.

John S. Kelly, three-st'y stores and flats, 931 West Van Buren St.; cost, $6,000

Charles Siebert, three-st'y store and flats, 1343 North Clark St.; cost, $7,500.

August Klaprott, three-st'y stores and flats, 1135 North Ave.; cost, $10,000.

Michael Brond, four-st'y store and flats, 171 Johnson St.; cost, $16,000.

Simeon Henby, four-st'y store and flats, 1358 Twenty-second St.; cost, $5,800.

Peter Leddy, four-st'y store, flats and hall, 434-438 Thirty-first St.; cost, $40,000.

C. A. Shaw, four-st'y store and flats, 507 Forty-third St.; cost, $8,000.

R. C. Reink, three-st'y store and flats, 440 Winchester Ave.; cost, $5,800.

John Garcis, three-st'y store and flats, 3133 Archer Ave.; cost, $7,000.

V. Sedlek, two-st'y store and hall, 548 Twenty-fifth St.; cost, $3,500.

Detroit, Mich. — John P. Martz, two brick stores, 706-710 Gratiot Ave.; cost, $9,000.

John R. Gentle, double brick store, 360 Grand River Ave.; cost, $6,000.

BUILDING INTELLIGENCE.

Smith & Co., four brick stores and dwells., 1-7 Abbott St.; cost, $20,000.

Montreal, Can. — *Notre Dame St.*, store and dwell.; cost, $22,000; owner, P. Wright; architect, Wm. E. Doran, 85 St. James St.

Notre Dame St., stores and dwell.; cost, $3,000; owner, Mrs. Jos. Lemen; architect, Gaudias Simard, 1585 St. Catherine St.

St. Paul St., stores and dwells.; cost, $8,000; owner, Mrs. Jos. Lemen; architect, Gaudias Simard, 1585 St. Catherine St.

Bleury St., cor. Dowd St., stores and flats; cost, $25,000; architect, W. H. Hodson, 242 St. James St.

St. Catherine St., five-st'y store and dwell.; owners, Brown Bros., 16 McGill College Ave.; architect, A. C. Hutchinson, 181 St. James St.

St. James St., 4 three-st'y stores and dwells.; cost, $15,000; owner, Joel Leduc, 119 Cadreix St.; architect, Chas. Chaussé, 107 St. James St.

Bleury St., two stores and dwells.; owner, Estate Durand; architect, A. Gendron, 99 St. James St.

New York, N. Y. — *Pearl St.*, s w cor. Rose St., ten-st'y brick store building, tile roof; cost, $250,000; owner, Samuel W. Bowen, 155 West Fifty-eighth St.; architects, Wm. Schickle & Co., 246 Fifth Ave.

Bond St., No. 30, seven-st'y brick store, tin roof; cost, $37,000; owner, Sampson Simon, 13 Astor Pl.; architects, Cleverdon & Putzell, 13 Astor Pl.

Fourteenth St., Nos. 132, 134, 136, seven-st'y store, tin roof; cost, $110,000; owners, Korn & Ottinger, 20 East Seventieth St. and 37 East Seventy-fourth St.; architects, Cleverdon & Putzell, 13 Astor Pl.

Fifth Ave., No. 292, six-st'y granite, stone and fireproof store; cost, $32,000; owner, J. Dreiser; architects, Geo. E. Harding & Gooch.

Sixth Ave., s w cor. Fifteenth St., five-st'y brick and stone store; cost, $80,000; owner, J. J. Coogan; architects, Lienau & Nash.

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BUILDING INTELLIGENCE.

TENEMENT-HOUSES.

Boston, Mass. — *K St., No.* 120, Ward 14, four-st'y brick tenements, flat roof, 48′ x 67′; owner and builder, W. T. Eaton.

Montreal, Can. — *St. Denis St.*, tenement-house; cost, $3,500; architect, Theo. Daoust, 162 St. James St.

Mountain St., tenement-house; owner, Geo. Bishop, 84 Osborne St.; architect, A. Gendron, 99 St. James St.

WAREHOUSES.

Chicago, Ill. — Estate of M. A. Meyer, seven-st'y warehouse, 208-218 Van Buren St.; cost, $90,000.

Leon Klein, four-st'y warehouse, 550 South Halsted St.; cost, $10,000.

New York, N. Y. — *City Hall Pl., No.* 26, six-st'y brick, stone and terra-cotta warehouse; architect, Richard M. Upjohn.

MISCELLANEOUS.

Baltimore, Md.—George H. Klank will build three-st'y brick buildings, Liberty St., bet. Baltimore and Fayette Sts.

A. B. Sultzbacher, three-st'y brick building, s w cor. Lexington and Eutaw Sts.

The Germania Club will build club-house, 408 Fayette St., w Eutaw St.

Brooklyn, N. Y. — *Henry St.*, e s, 93′ n Third Pl., one-st'y brick Sunday-school, tin roof; cost, $31,800; owner, St. Paul's Roman Church, on premises; architect, C. F. Eisenach, 59 Court St.

Grand St., No. 1189, one-st'y frame coal pocket, tin roof; cost, $4,500; owner and architect, C. H. Reynolds, 810 Bushwick Ave.

Gowanus Canal, w s, 75′ s Ninth St., one-st'y frame electric power house, tin roof; cost, $3,000; owner, Coney Island & Brooklyn Railroad, Smith and Ninth Sts.

Broadway, s s, 204′ 6½″ w Hancock St., four-st'y brick billiard and bowling hall and dwell., tin roof; cost, $14,000; owner and builder, Wm. H. Barton, 10 Cooper St.; architect, W. M. Coots, 189 Montague St.

Flushing Ave., n s, 75′ e Bushwick Ave., three-st'y photograph gallery and dwell., tin roof; cost, $4,000; owner, A. Stoffregen, Flushing Ave. and Broadway; architect, Hugo Smith.

Clinton St., n e cor. Pierrepont St., one-and-one-half-st'y brick bank, iron and fireproof tile roof; cost, $256,000; owner, Brooklyn Savings Bank, Concord and Fulton Sts.; architect, Frank Freeman, 132 Nassau St., New York City.

Charlestown, Mass — Brick and frame club-house, 40′ x 100′, for 999th Battery Club; contract to be let; architects, Loring & Phipps, Boston.

Medford, Mass. — Frame club-house, 40′ x 90′; contract to be let; architects, Loring & Phipps, Boston.

New York, N. Y.—*Stone St.*, extension, owner, Produce Exchange; architect, Mr. George B. Post.

Twentieth St., n e cor. Second Ave., six-st'y brick and terra-cotta building; cost, $100,000; owner, Post Graduate School and Medical Hospital; architect, W. Burnet Tuthill.

Division St., No. 264, six-st'y workshop, tin roof; cost, $10,000; owners, Louis Aaron, 34 Second Ave., and Wolf Mitz, 314 Delancy St.; architects, Horenburger & Straub, 122 Bowery.

Worcester, Mass. — *Granite St.*, four st'y frame orphanage building; owners, The Gray Nun Orphanage Society; contractor, P. L. Paquette; architects, Fuller & Delano.

PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., June 23, 1892. Sealed proposals will be received at this office until two o'clock P. M. on the 21st day of July, 1892, and opened immediately thereafter, for all the labor and materials required for the trench excavation, foundations, cut-stone and brickwork of the basement and area walls, basement columns, first floor beams, girders and wood joists for the United States Court-house and Post-office building at Tallahassee, Fla., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Tallahassee, Fla. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Trench Excavation, Foundations, Cut-stone and Brickwork, etc., for the Basement and Area Walls, etc., for the United States Court-house and Post-office building at Tallahassee, Fla.," and addressed to W. J. EDBROOKE, Supervising Architect.
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Treasury Department, Office Supervising Architect, Washington, D. C., June 24, 1892. Sealed proposals will be received at this office until two o'clock, P. M. on the 19th day of July, 1892, and opened immediately thereafter, for all the labor and materials required for concrete and stone footings, etc., for the United States Post-office building at Washington, D. C., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent on the building site. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids and to waive any defect or informality in any bid or in the requested letters to accompany bids, if it be deemed in the interest of the Government to do so. Proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Concrete and Stone Footings, etc., for the United States Post-office building at Washington, D. C.," and addressed to W. J. EDBROOKE, Supervising Architect.
863

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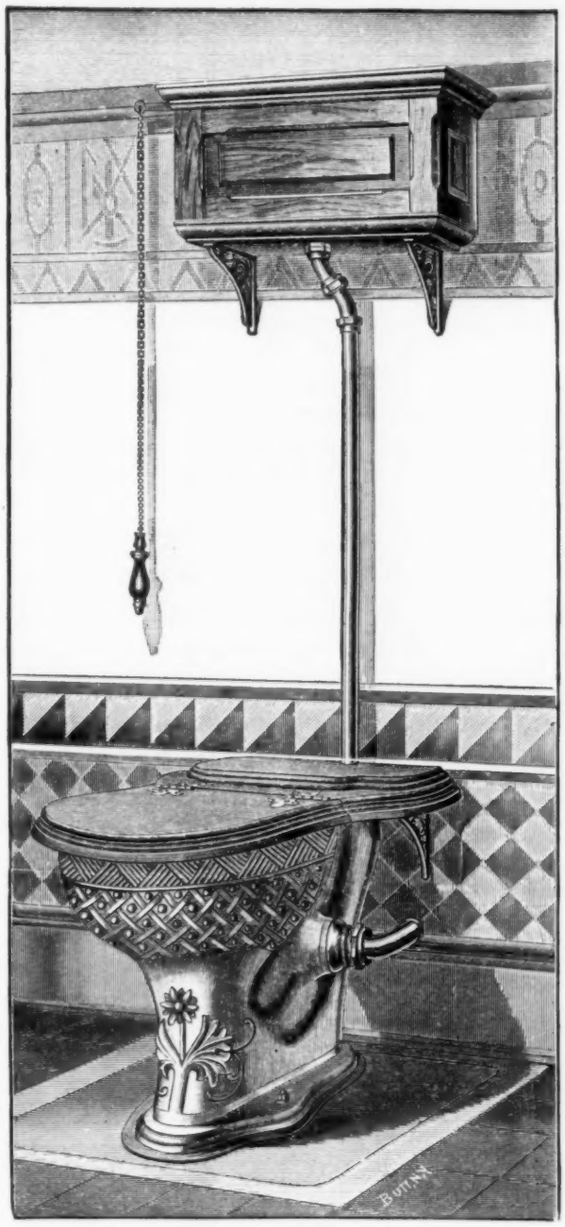

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PROPOSALS.

PLASTERING, ETC.

[At Boston, Mass.]

OFFICE OF THE COMMISSIONERS, 27 MT. VERNON STREET, BOSTON, MASS. } BOSTON, June 16, 1892.

Sealed proposals will be received at this office **until 12 M. Monday, July 11, 1892,** for materials and labor required in the plastering, stucco and cement work for the Massachusetts State-House Extension.

Plans and specifications for the same may be seen at the office of the architect on and after Thursday, June 23, 1892.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

All bids are to be plainly marked "Proposals for the Plastering, Stucco and Cement Work of the Massachusetts State-House Extension, Boston, Mass."

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862

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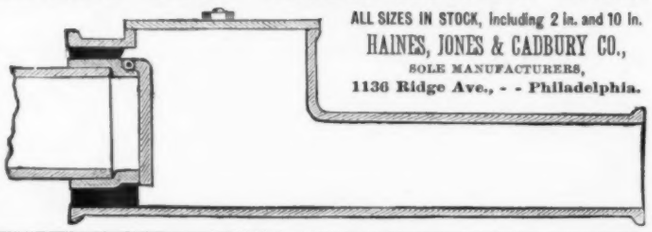

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PROPOSALS.

ELECTRIC PLANT.

[At Boston, Mass.]

Office of the Commissioners, 27 Mt. Vernon Street, Boston, Mass. Boston, June 16, 1892.

Sealed proposals will be received at this office **until 12 M. Monday, July 11, 1892,** for the materials and labor required in the construction of the electric plant, including engines, dynamos and wiring, for the Massachusetts State-House Extension.

Plans and specifications of the same, prepared by the Massachusetts Electrical Engineering Company, may be seen at the State-House Reading-Room on and after Thursday, June 23, 1892.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

All bids to be plainly marked "Proposals for the Electric Plant for the Massachusetts State-House Extension."

JOHN D. LONG, BENJ. D. WHITCOMB, WM. ENDICOTT, Jr., } State-House Construction Commission.

862

Treasury Department, Office Supervising Architect, Washington, D. C., June 13, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 7th day of July, 1892, and opened immediately thereafter, for all the labor and materials required for the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Post-office, etc., building at Sedalia, Mo., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Custodian at Sedalia, Mo. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, or to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidder. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Post-office, etc., building at Sedalia, Mo.," and addressed to W. J. EDBROOKE, Supervising Architect. 862

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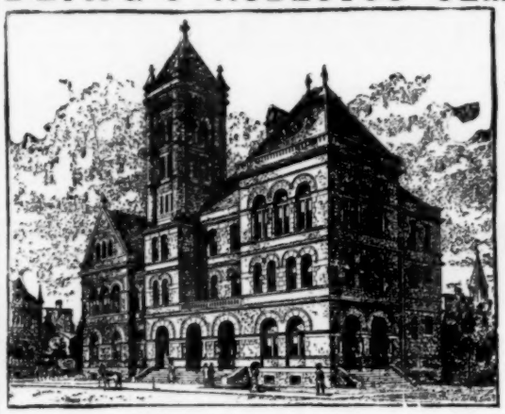

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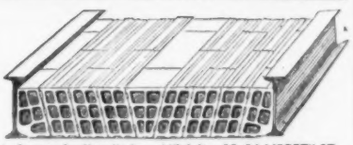
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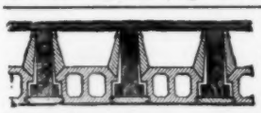
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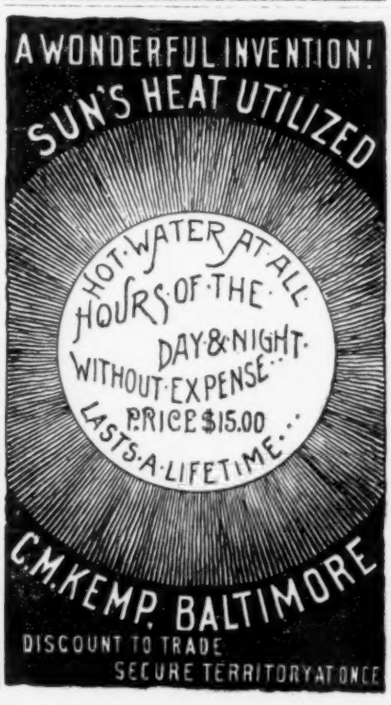

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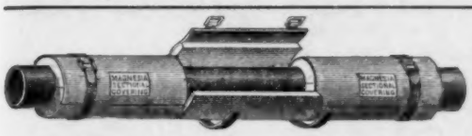

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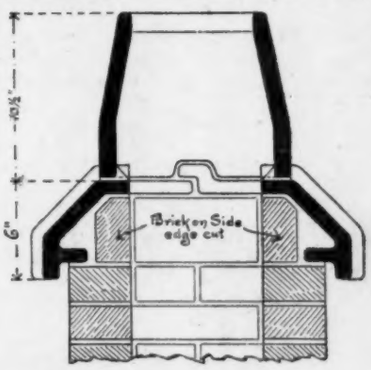

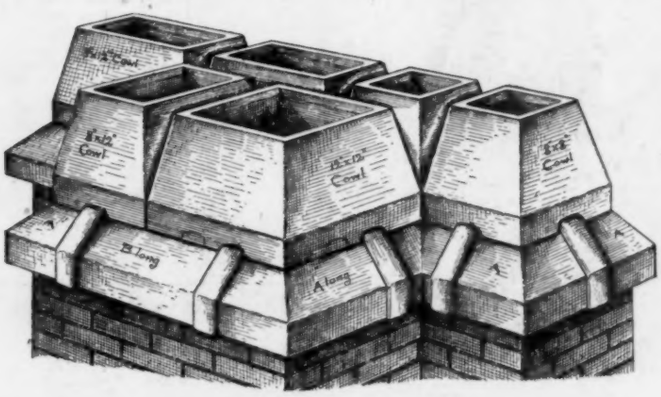

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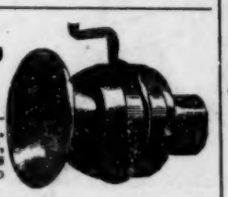

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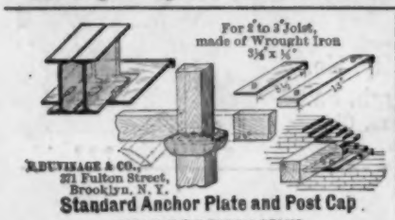

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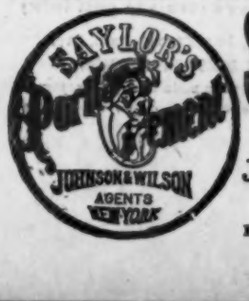

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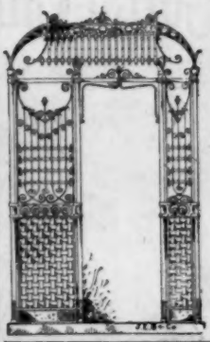

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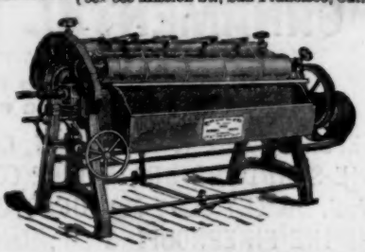

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ANDIRONS, FIRE SETS, FENDERS, TABLES, PEDESTALS, HODS, SCREENS EASELS, Etc., Etc.

TILES FOR ALL PURPOSES.

28 and 30 West 23d Street.

The American Architect and Building News

ADVERTISERS' TRADE SUPPLEMENT.

No. 121. SATURDAY, JULY 2, 1892. Volume XXXVII. No. 802.

FLORIDA STEAM AND HOT-WATER HEATERS.

The Pierce, Butler & Pierce Mfg. Co., have concluded negotiations for the purchase of fifteen acres of land in the City of Syracuse where they intend erecting works for the manufacture of their Florida steam and hot-water heaters which will undoubtedly be among the finest of the kind in the world devoted exclusively to the manufacture of steam and hot-water heating-apparatus.

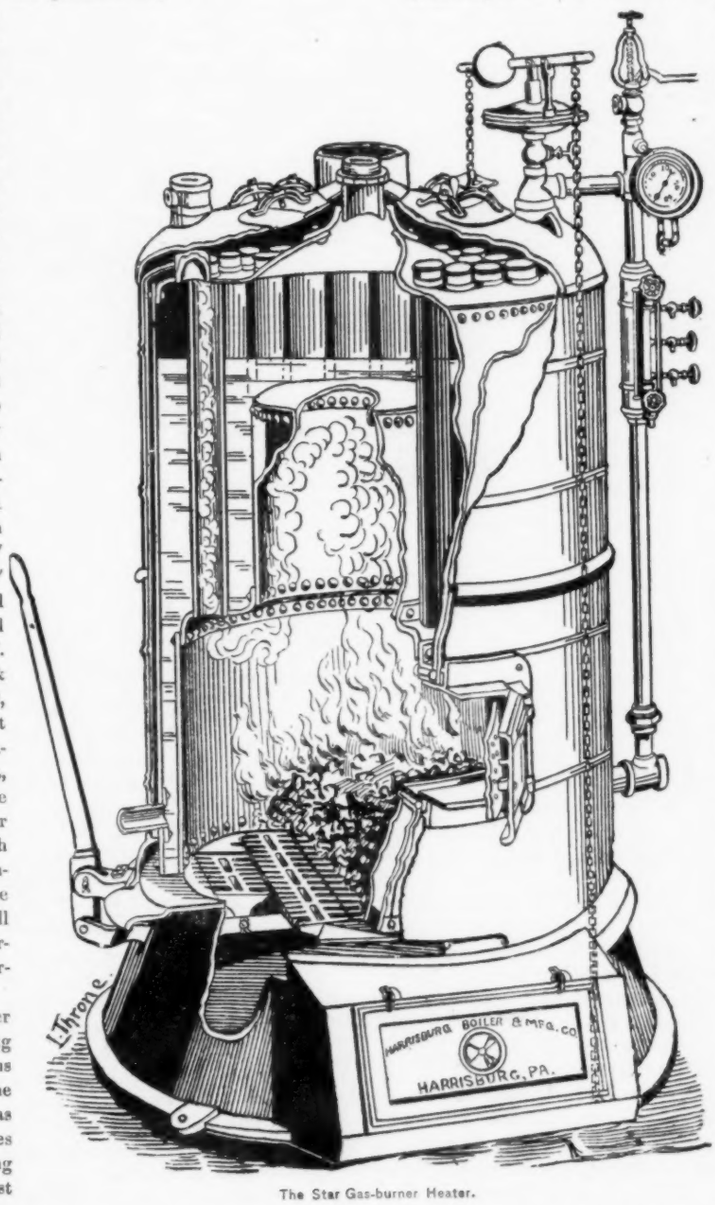
The buildings will all be of brick and the plant will be a model one. There will be two machine-shops each 100′ x 200′ and two stories high. A foundry 100′ x 200′. A core-room 60′ x 100′, and a cleaning-room of the same size. A building for a boiler-room and a blacksmith shop 40′ x 80′. A store-house 100′ x 200′. A sand, coal and coke house 20′ x 100′, and an office-building 30′ x 30′.

The Pierce, Butler & Pierce Mfg. Co., will, shortly before January 1st next year, move their entire plant from Geneva, N. Y. to Syracuse. The new works at the latter place will be equipped with all the most modern improvements that can be obtained. The plant will require in the neighborhood of 400 men to operate it.

The "Florida" heater manufacturers are looking forward to a tremendous business and consider the outlook for this season as most cheerful, their sales so far this year being nearly double those of last year up to the same date.

The company advertises well and extensively and are persistent in their efforts and this to be sure has something to do with the amount of business that they have done, but it is quite evident that they never could have obtained for the "Florida" the popularity which it enjoys were it not for its general efficiency in operation.

PIERCE, BUTLER & PIERCE MFG. CO.,
SYRACUSE, N. Y.



The Star Gas-burner Heater.

STAR GAS-BURNER.

The attention of the trade generally is invited to our new style Star Gas-Burner, which under the re-organized company has been greatly improved.

The boiler as it is now constructed represents perfection in the manufacture of hot-water and steam heaters. It has as great heating-surface as any heater made, (as will be seen from cut). It is self-cleaning, all tubes being placed vertically. It has a most rapid and unimpeded circulation, making it especially valuable as a hot-water heater. It consumes its own gas, *i. e.*, the gas generated by the burning coal ascends into the gas-chamber and is there held in suspense until consumed, thus securing from fifty to seventy-five per cent more benefit from coal burned than is had from other constructions.

The especial attention of the trade is called to the *proportions* of this heater, for while it contains a tremendous volume of water, its parts are so equally divided that there is no large body of water in it which is not directly affected by the fire-surface of the fire-box, flues and the gas-chamber. This, in part, accounts for its large heating-capacity. Its fire-box is especially large, allowing deep fires, and hence slow combustion. This feature, together with its gas or combustion chamber, makes it one of the most economical coal-burners in the market. It is provided with improved shaking grates for either anthracite or bituminous coal. For steam purposes it is provided with the best automatic appliances for self-regulation. The new features are the supplying of an automatic ash-pit door, an opening just above the grates for clinker cleaning, a wrought-iron adjustable shaker lever, (making breakage of this impossible) and a number of minor changes, all tending to give the boiler increased efficiency. Its capacity for hot-water is from 315 to 1,800 square feet of direct radiation, and for steam from 215 to 1,200.

HARRISBURG BOILER AND MANUF'G. CO.,
HARRISBURG, PA.

FRIEDGEN'S PATENT DUMB-WAITER.

This dumb-waiter is operated by hand-power, and is intended to be used in dwellings, hotels and restaurants.

It consists of certain novel features in the construction and arrangement of a car provided with curved guide-plates, rigidly attached to the sides thereof, and fitting around a portion of the cylindrical surfaces of two tubes secured within the main casing, perfectly made of seamless brass; one of these tubes used for the running of a counter-weight, each end of this counter-weight having a rope attached, secured to the top and bottom of the car passing over suitable size pulleys.

FIG. 1

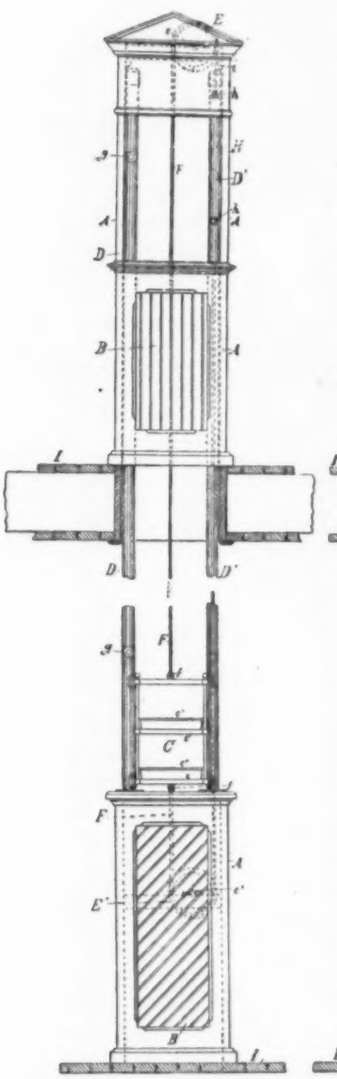


FIG. 2

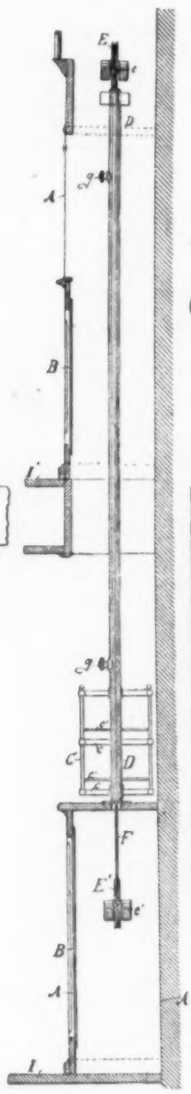


FIG. 3.

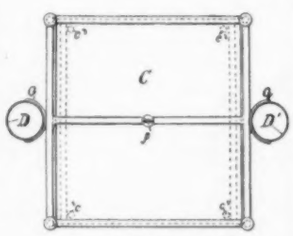
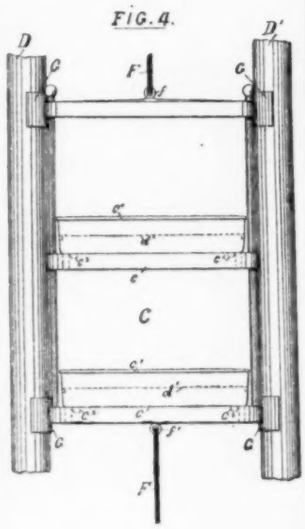


FIG. 4.



The other tube is utilized for a speaking-tube. By this novel arrangement a neat and compact dumb-waiter is obtained.

In the accompanying drawings Figure 1 shows a front elevation partly in section. Figure 2 is a side elevation of the same. Figure 3 is a top view of the car, showing the brass tubes, serving to guide the car in its movement upward and downward, and one of them for allowing the counter weight to travel in, and the other for a speaking-tube. Figure 4 is a side elevation of the car on an enlarged scale.

Parts appearing in more than one figure are represented by the same reference letter.

A represents the main case of frame work enclosing the mechanism of the apparatus. The car *A* extends upward through as many stories of a building as may be required, and is provided with suitable doors, *B*, to permit access to the waiter. *C*, represents the car having a number of shelves, which can be furnished with trays provided with perforated false bottoms, allowing liquid contained in glasses or other receptacles spilling while being elevated to drain through these perforated plates into the bottom of the trays, thus permitting of the easy removal of the trays without in the least damaging whatever may be upon the remaining shelves of the car.

Tube *D* is provided with suitable mouth-piece, *G*, at convenient place for use as a speaking-tube.

This dumb-waiter will be furnished complete and erected in place, or the material will be sold, the price depending on the size and length of the tubes by

J. B. SHANNON & SON,
1020 Market Street, Philadelphia, Pa.

EXPANDED METAL

Is made from a piece of steel, cut with the grain and pushed out or expanded into diamond-shaped meshes, so that the original surface is greatly increased. The direction of the edge undergoes a complete reversal, and the flat surface of the cut strand is at a right angle with the conditions originally existing. In order to secure these desirable qualities, it is necessary to use only a very soft, tough steel of fine texture. It is very much superior to wire work, as it presents its smallest surface as an obstruction to light, and its largest in the line of resistance to pressure. Each mesh is independent of all others, and numerous strands may be cut without materially weakening the sheet. It is impossible to unravel it, as it is solid at all points of intersection.

The oblong mesh is peculiarly adapted for plastering. There is nothing like it and nothing equal to it.

The diamond-shape mesh is equally well suited for fences for lawn, farm or railroad, being light and neat for the one, strong and durable for the other. Requires no stretching to put in place, as wire, no loose ends or sagging strands.

Makes better gates than any article in use, either for farm or lawn. Any mechanic can make his own window-guards from it, and the uses to which it may be applied are so many and varied that they cannot be named here.

By the use of this metal, smooth, solid walls and ceilings are secured, and, as there is no shrinkage or expansion, there are no cracks. Each mesh is so formed that the plaster, properly applied, forms a perfect key, and no ordinary amount of wetting or jarring alters the position in the least.

For fireproofing iron girders, posts, and beams, this is found to be the most useful and simple article ever used. Its protection is equal to tile, while its weight is only one-tenth as much, and the cost, at present prices, not more than one-fourth. For covering around registers and hot-air flues, in either wood or brick partitions, it is pronounced by every one who has used it as the best, without any qualification.

The cost of applying this is about the same or less than that of wood lath, which as plasterers know, is very small compared with wire cloth, and can be done by any ordinary mechanic.

Architects and builders should always specify this material when making plans for plastering, because it will reduce the fire-risk to the minimum, as it is almost an absolute protection. It will insure your walls and ceilings remaining intact, just where you place them, thus furnishing a foundation for decoration that will justify the outlay. It will prevent cracks and falling plaster, such as is caused by shrinking wood lath. It will make more solid walls than any lath in use. The form of construction is such that expansion and contraction are prevented. Its construction makes it self-furring on flat or curved surfaces. It can be applied by unskilled workmen without the aid of special tools. Will cut without waste. Is sufficiently rigid on ordinary centering of studding or joist; on curved surfaces it readily takes and retains the form required. It is all "key." If an air-space is required in fireproofing either wood or iron columns, with the use of angle furring strips and our lathing, as complete protection can be obtained as by the use of tile, at about one-tenth of weight and one-quarter of cost, at present prices.

The latest methods of fireproofing require frame work of iron on which to carry the hollow clay tile used to support the floors. This is necessarily heavy and expensive. There are other and serious objections to this construction.

The tile adds nothing to the strength of the building. Just the reverse, by increasing the weight. It has merely a parasitish office in clinging to the iron, as an intermediate between that and possible heat. Tiling is, of itself, no protection from fire, as the heat would

quickly penetrate the joints. It is only when plastered that it acts as a non-conductor, hence, it is the plastering, after all, that is relied upon. Again, the tile is put up in sections, loosely connected, and if, by accident, as much as one section is disconnected and falls, it is the signal for the destruction of the iron column or beam it is intended to protect. Expanded metal similarly used will better effect the purpose, because, a more reliable base for plaster. It is placed in position over columns and beams so that it is a continuous sheet from end to end, and no part can fall unless all falls. Other great advantages which the lath possesses is the saving of weight both in the covering and the economy in the same respect of foundations and walls. Hollow tiling weighs per square yard from 100 to 300 pounds. Expanded metal, with its fastenings, weighs less than 8 pounds per square yard. It will require but a short mathematical calculation to show the great saving effected.

A distinguished architect recently made the remark "that the most difficult part of the work of constructing a building to suit his clients was the plastering." As it is the most prominent feature of the interior construction, all defects are easy of detection and every crack that appears is charged to imperfect work, which the architect should not have permitted. He said further "that since beginning the use of Expanded Metal Lath he never felt the slightest uneasiness on that account, because even if so disposed, it would be impossible for a contractor to do a bad job on that lath." It is a fact, not fully appreciated that Expanded Metal Lath needs no superintendent and when it is used, the danger of cracks from expansion and contraction is not worth considering. The mortar will never fall off, and the house is made practically fireproof. The master plasterers like it because no carelessness or incompetence on the part of their men can endanger a satisfactory job and one they will always be proud of. The men like it because it is so easy to work on. It is in all respects the very perfection of a material.

Doesn't Expanded Metal Lath take a good deal of mortar?

This question is frequently asked us, and the reply is that it takes just enough mortar to make a good job and not an ounce more.

It is the poorest possible recommendation for a lath that it requires but little mortar. Mortar is the fireproof material and not the lath.

What a builder should do is to put on sufficient mortar to withstand a hot fire, but be sure that the lath is of a character to certainly hold the plaster in position while under exposure. Then the building is safe. If, on the other hand, the lath sheds the plaster what a supreme piece of folly to use it.

Wood lath will not only fail to hold the plaster but will itself burn.

There are various kinds of metallic lath on the market which possess the advantage (?) of not taking much mortar, but when a fire comes that very absence of mortar makes the building an easy prey; the thin coating of plaster peels off, and the so-called lath remains solely as an obstacle to the firemen in their efforts to reach the trouble.

Any metallic lath which does not in use become imbedded in the mortar is no better than wood.

If it be necessary to cover large iron columns to preserve them from the effects of heat, by what rule does this thin sheet steel or iron become exempt?

For the purpose of testing the fire-resisting quality of expanded metal lath when applied to wood, a building about 9 feet square was erected. The walls were built of brick. To have the test the more severe, the ceiling was made with wood joist and very low — the story being only 5½ feet high. Openings through the walls, under the ceiling, were made to create a draught and carry the heat against the ceiling. The joists were covered with expanded metal lath, and plastered with common lime mortar in the ordinary way. The fuel used was oil waste, oil barrel staves and rosin barrels. The heat was kept as intense as possible for one hour and fifteen minutes. The result is told by Mr. J. W. Arrott, one of the persons who witnessed the fire, and who was requested to give his view of the value of the material tested.

OFFICE OF JAMES W. ARROTT, INSURANCE,
541 WOOD ST.,
PITTSBURGH, PA., May 26, 1890.

CENTRAL EXPANDED METAL CO., CITY:—

Gentlemen, — In reply to your inquiry, I beg to say that some days ago I witnessed the test of "Expanded Metal Lath," applied to wood joists in the small building erected at your works. I found the construction of the building was such as is commonly used in a dwelling-house, except that Expanded Metal Lath was used for plastering. As the object to be attained was to ascertain the resistance of the "Metal Lath" to intense heat, and the staying qualities of the mortar when thus applied. The fuel was the most inflammable and heat producing that could be used, the flames of which impinged directly against the ceiling for over an hour. By the use of the hose the fire was then extinguished, after which an examination showed no cracks in the plaster, thus proving that under this intense heat the "Lath" did not expand, nor, under the cooling effect of the water, contract to any perceptible extent. When the low story is considered, I regard it as a remarkable test, and one unnecessarily severe. My experience is, that if a fire can be kept under control for twenty-five minutes, the structure can be saved without serious injury. In this case three times this period was used without burning the building. I consider the test a great success and a demonstration that wood joist and studding can be made practically fireproof by the use of this or similar material in plastering, and that the introduction of such in all classes of buildings would tend to a degree of security not only to the owner, but also to the insurance companies, unknown under the present form of construction. I will be glad to welcome the day when these additional safeguards will be as commonly used as is now the tinder-box construction.

Respectfully yours,
J. W. ARROTT.

Mr. Arrott is at the head of one of the largest insurance agencies, with an experience of over thirty years — of the widest and most varied possible — with fires and their causes, very conservative, and so careful in his opinions that, when expressed, they are entitled to be received with all the force of an official deliverance.

CENTRAL EXPANDED METAL CO.,
531 WOOD STREET, PITTSBURGH, PA.

REMOVAL.

NEW YORK, N. Y., June 25, 1892.

WE will move our general offices to our new office-building at our works, Twenty-sixth Street and Eleventh Avenue, June 27th, retaining a small office at 143 Centre Street, for repair and jobbing orders.

All communications should be addressed to Twenty-sixth Street and Eleventh Avenue, after receipt of this notice.

Yours truly, J. B. & J. M. CORNELL.

ROPE-DRIVING.

TRANSMISSION of power by ropes, as a substitute for leather belting or line shafting, commands increasing attention from engineers, practical mechanics and manufacturers.

Rope-driving is not new. The method of carrying power by a number of separate endless ropes running parallel over grooved-sheaves has been long used in England and on the Continent.

To provide a means of keeping the tension uniform when several strands are necessary to transmit the power required, the best modern practice favors the use of a single rope wound continuously round the driving and driven grooved wheels, and passed from the last groove around a tension wheel to the point of beginning.

The essential parts of a continuous-rope transmission are the sheaves, the rope, and the tension device.

The sheaves we make in two forms: one, used only for idlers, having a rounded groove of but little greater radius than that of the rope employed, the other having the "V" grooved rim required for driving sheaves. Numerous experiments have been made to determine the best angle for the sides of this groove, the object being to attain the maximum grip without making the angle acute enough to cause the rope to wedge in the groove or to wear by sliding into place.

The bottom of the groove is round and the sides smooth, to prevent abrasion of the rope.

We have so perfected the manufacture of our sheaves that all grooves of the same nominal size have exactly the same pitch diameter, and are strictly interchangeable. This is of vital importance in a multiple-grooved sheave. If there is any inequality, the rope will travel in the groove of larger diameter at increased speed, thus causing the several ropes to pull against each other, and throwing the strain of the transmission on less than the whole number of ropes. Nothing has so militated against the general employment of rope-driving in this country as the use of imperfect multiple-grooved sheaves; those constructed of wood having proved especially faulty.

The rope we use, known as the "Stevedore," is specially made for transmission purposes. It is manufactured from the best pure long-fibre manila, laid in tallow mixed with plumbago, to reduce the fibre friction caused by the bending of the strands in passing around the sheaves. This treatment also renders it nearly waterproof, a point of great advantage in out-door transmissions.

The "Stevedore" is a four-strand rope.

An examination of the cross-sections will show that a four-strand rope approaches more nearly to a circle and contains more fibres for a given diameter.

Tests on manila rope give very different ultimate strengths. A rule which is safe for new rope may be stated as follows: The number of eighths of an inch of diameter squared, multiplied by 111, equals the ultimate strength in pounds. This would give for

¾	inch diameter rope.....	4,000	lbs.	breaking	strain.
⅞	" " "	5,500	"	"	"
1	" " "	7,100	"	"	"
1¼	" " "	9,000	"	"	"
1½	" " "	11,000	"	"	"
1⅝	" " "	13,400	"	"	"
1¾	" " "	16,000	"	"	"

The tension device consists of a movable carriage travelling on suitably constructed ways, and carrying an idler sheave, the tension required by the travelling ropes being

given by a suspended weight. It is often more convenient to place the tracks vertically.

The rope having been wrapped around the driving and driven sheaves the proper number of times for the required driving force, the last strand of the slack side passes over the tension-wheel, which is deflected at the proper angle, to lead the rope back to the point of beginning. The tension-carriage keeps the strain in the rope constant for any given horse-power, regardless of variation in length of rope, due to moisture in the atmosphere or to natural stretch caused by use. It instantly takes up any slack caused by a sudden increase of load, or gives slack when load is relieved.

In order to obtain the maximum results from the rope, the tension weight must be carefully considered. An excessive weight causes needless strain and wear, while a deficient one allows the rope to slip, and thus again shortens its life. A series of careful tests of the co-efficient of friction between our form of groove and the rope we use enables us to determine the weight for any horse-power.

When the rope has to make many wraps to obtain the required horse-power, or pass over many sheaves, as in transmitting power to several floors of a building, we find it sometimes advisable to use more than one rope. Each, then, has its own tension carriage.

We employ a compensator between weight and carriage which contributes great sensitiveness by enabling any slack to be taken up without first overcoming the inertia of the weight.

The compensator is specially effective in dynamo drives.

The advantages claimed for rope transmission are:

(1) It is positive and economical of power.

The co-efficient of friction in the "V" groove is so great that, without straining the rope or causing needless journal friction by a great strain in the slack side, slip is entirely obviated.

(2) Allied to the first is the ease of running vertical belts.

The relative lightness of manila rope to the tension weight makes vertical belts as economical as inclined or horizontal ones.

(3) Facility for turning corners.

The grooves render "running off" an impossibility. By using large idlers the loss of power by journal friction and stiffness of rope is inconsiderable, while the extra wear on the rope is minimized.

When it is necessary to quarter-twist a wide band of ropes at short centres, the use of our patent angle sheaves avoids any abrasion of the rope against the sides of the grooves.

(4) Facility for leaving power at intermediate points.

Any sheave around which the rope wraps sufficiently, if made with the "V" groove, can receive power from the rope.

(5) Ability to connect shafts at any angle, or running in opposite directions, without losing efficiency.

Unlike leather belting, there is no perceptible loss in power in quarter-twisting or crossing ropes.

(6) Shafts making a slight angle, or out of line, can be connected by rope without the use of idlers.

The grooves effectually prevent any running off of the rope.

(7) It is smooth and noiseless in running.

This especially recommends it for high speeds or for use where noise and vibration are objectionable.

(8) Sensitiveness to varying loads.

The tension-carriage automatically takes up any slack caused by a sudden increase of load, tightening the driving strands, or gives slack when the load is relieved. This maintains a uniform tension in the slack strands, and allows the load, after the machinery is in motion, to be increased from zero to its maximum without causing slip and consequent vibration.[1]

(9) Shafts may be close together.

The use of a tension wheel does away with any necessity for having the shafts far apart to secure grip. It is quite as easy to carry several hundred horse-power from one shaft to another ten feet away as it would be to one 100 feet distant.

(10) Compactness.

The strands can be pressed together to save head-room or floor-space. Power may be carried up through a building in a flue or cast-iron pipe.

(11) Cheapness.

The cost being about one-third as much as leather belting or line shafting, if either power to be transmitted or distance between shafts is considerable.

(12) Economy of maintenance.

The tension-carriage automatically takes up all slack, so that the rope will not need resplicing or any attention. When a rope is finally worn out, it can be replaced at a trivial cost. The iron sheaves are indestructible by use.

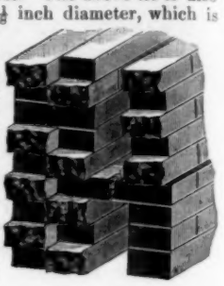
LINK-BELT ENGINEERING CO.,
PHILADELPHIA AND NEW YORK.

[1] A moment's consideration of any form of transmission by belting will show that when the driving side suddenly tightens, by increase of load, the slack side is correspondingly slacker at the very time when it should be taut. This allows extra slip, thereby relieving the driving side and tightening the slack side until the grip is, for a moment, sufficient to hug the pulley and again tighten the driving side. The result is the well-known "slapping" of heavy belts under varying loads.

THE MORSE WALL-TIE.

The illustrations we present herewith of this excellent device will give a clear idea of its construction and application. The device is made by J. B. Prescott & Son, of Webster, Mass., and will be recognized by architects, masons and builders as a distinct advance in the right direction. The importance of hollow walls has come to be so universally acknowledged that a good and inexpensive method of binding, which will do away with the old-fashioned diagonal "brick-header," will be appreciated. The cost and bulk of this tie is much less than the primitive wrought-iron band. The Morse Patent Wire Wall-Tie supplies this demand and for the purpose of tying vaulted walls of either brick or stone, securing brick facings, terra-cotta or ornamental work, or giving additional security to any form of masonry it affords a simple yet excellent method.

This wall-tie is made of 3-16 inch galvanized steel wire and manufactured in lengths of 7 inches to 24 inches to suit any thickness of wall or width of vault. The above tie is also made in 5-32 and ¼ inch diameter, which is particularly adapted to securing pressed brick facing. To obtain the best results, the ties should be placed 32 inches apart longitudinally, and every five courses of 12 inches apart in height, breaking joints alternately as illustrated in Fig. 2.



The manufacturers claim the following points of advantage:

(1) They are cheaper than any other method of bonding.

(2) They are stronger than any other form of bond.

(3) They are simple in construction and their use easily understood.

(4) They are applied instantly.

(5) They are impervious to frost.

(6) *Being perfect non-conductors of moisture and dampness, they insure a dry interior.*

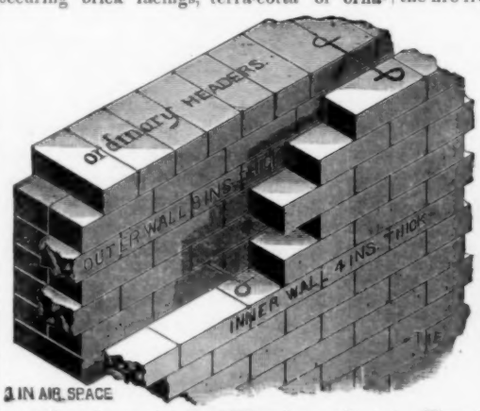
(7) By their use, bricks are not broken and wasted, as will necessarily occur in the fitting of the diagonal "brick headers" shown in Figure 3.

The Morse Wall-tie.

(8) In the event of the settling of the inner wall, they bend sufficiently to accommodate themselves to the situation without causing a fracture or "bulging" the wall, as illustrated in Figure 4.

The New York office is at 62 Reade Street and the New England agents are Butts & Ordway, 500 Atlantic Avenue, Boston.

J. B. PRESCOTT & SON,
WEBSTER, MASS.



NOTE.

Architects should send to P. Duvinage & Co., 371 Fulton Street, Brooklyn, for their catalogue illustrating the "Standard Anchor Plate and Post Cap" for self-releasing beams.

It represents an improved system of tying the outer walls of buildings, so that in case of burning through the floor, the beams release themselves from their fastenings at either end and fall out, leaving the wall standing, thereby confining the heat within, and preventing the fire from extending to adjoining buildings.

The adoption of such a system recommends itself.

It is also of the highest importance to Firemen and Fire Insurance Companies in that it reduces the risk of life or injury to the firemen by tumbling walls over their heads and their apparatuses just at a time when every moment is precious; and the Fire Insurance Companies recognize that if there must be any firing of houses, the smaller the destruction of property by fire and water the better for all concerned.

JUL 11 1892

PRICE 15 CENTS.

651x2

JULY 9, 1892.

THE AMERICAN ARCHITECT AND BUILDING NEWS

VOL. XXXVII. * REGULAR EDITION * NO. 863.

ARCHITECTURE

ENGINEERING

DECORATION

CONSTRUCTION

TICKNOR & COMPANY

BOSTON MASS.

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HIGH-SCHOOL BUILDING, CAMBRIDGE, MASS.
[Gelatine Print issued with the International and Imperial Editions only.]
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PROPOSED CHURCH.
HOUSE AT BARCELONA, SPAIN. — STAIRCASE-HALL AND CEILING OF DRAWING-ROOM.
THE SAME. — WOODEN CORNICE AND PARTITION.
HOUSE AT SOUTH BETHLEHEM, PA.
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Additional Illustrations in the International Edition.

OLD HOUSES, HILDESHIEM, GERMANY.
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GROUP OF SCHOOL BUILDINGS, NOGENT-SUR-SEINE, FRANCE.
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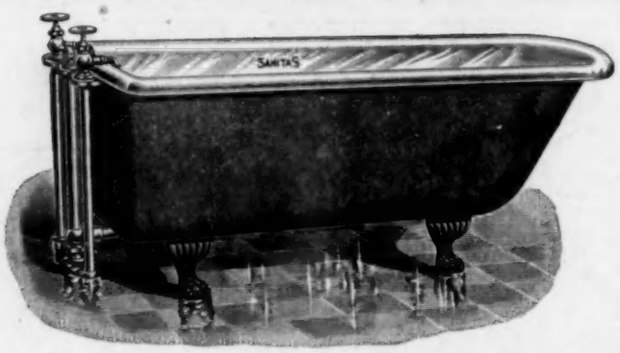

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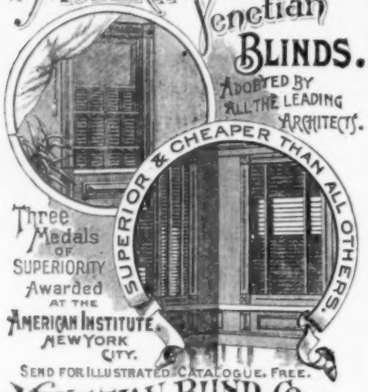

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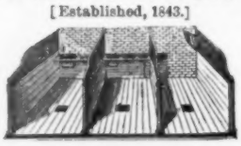

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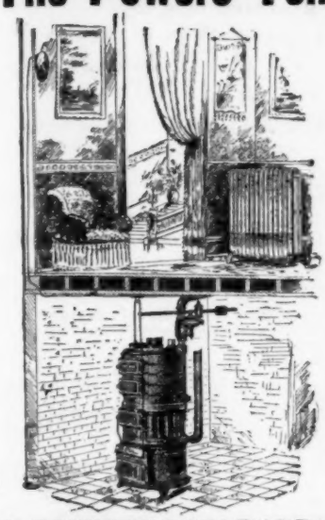
Chicago pressed (Anderson)		50 00 @ 80 00	15 00 @ 27 00	@ 13 00
" Moulded			65 00 @ 350 00	Pressed
Baltimore	37 00 @ 41 00	Anderson	@ 55 00	18 00 @ 20 00
Philadelphia	23 00 @ 24 00	14 00 @ 32 00	45 00 @ 50 00	Best Paving
Trenton	22 00 @ 23 00		45 00 @	@ 14 00
Milwaukee			25 00 @	Second "
Moulded:			60 00 @ 100 00	@ 13 00
Glens Falls Red Pressed	@ 37 00		30 @	Third "
" " Buff "	@ 30 00		35 @	@ 12 00
" " Moulded Red & Buff	45 00 @ 70 00		55 00 @ 65 00	
Enamelled: *Imp.*				
Enamelled (edge)	85 00 @ 100 00		@ 100 00	Dom. @ 65
Enamelled (edge and end)	90 00 @ 115 00		@ 120 00	@ 85
CEMENT, LIME, etc.—(℔ *cask.*)				
Rosendale Cement	85 @ 95	1 20 @ 1 40	*Not sold.*	1 30 @ 1 50
Louisville "		Brooks, S. & Co.	1 05 @ 1 30	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	*Not sold.*	2 60 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs)	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	Josson
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	2 60 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	3 90 @ 3 25
" " (Hanover)	2 50 @ 3 00		*Not sold.*	2 75 @ 2 85
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	2 70 @ 3 00
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ℔ bush
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30
Chicago Lime in bulk		St. John 1 00	55 @	White Mash
Wisconsin Lime			60 @	1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	1 00 @ 1 00
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ℔ *bush.*	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ℔ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (℔ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lamont	@		35 @ 60	75 @ 1 50
Serpentine	@	10 50 per ton	@ 1 00	℔ Perch @ 4 5

The Powers Temperature Regulator.



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Wholesale Prices.) *(Prices to Builders and Contractors,*

	New York.	Boston.	Chicago.	Philadelphia.
Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in.th.10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	} 55 @ 1 00
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle. English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	225 @ 4 00
" " Chapmans	@	@	7 30 @ 8 00	00 @ 4 65
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am ...℔ M	@	@	*Not Sold.*	@ 25 00
N. Peach Bottom, warranted unfading	@	@	@	6 00 @ 6 75
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	42 @ 43	57 @ 60	@ 60
" " boiled. (℔ gal.)	58 @ 65	45 @ 46	60 @ 63	@ 63
Turpentine (℔ gal.)	36 @ 37	@ 35	51 @ 51	@ 44
Varnish, coach	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty ... ℔ tr.	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting ... ℔ tr.	75 @ 1 00	1 @ 1½	1 @ 1½	1 @ 1
Paris white, (Eng.) ... ℔ tr.	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am ... ℔ tr.	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask 2 90 (all kinds.)
Butts: 4" x 4" ...(℔ doz. pairs.)	@ 1 00	@ 1 20	@ 90	@ 90
Plain	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 75
Acorn, Japanned	@ 65	@ 50	*Not Sold.*	48 @ 50
Ball Tip, Boston Finish ...(℔ pair.)	@ 1 90	plain 1 65	2 00 @ 3 25	@ 1 25
Bronze metal	@ 10	@ 10	@ 12	@ 1 00
Brass (for cupboards.)	@	@	@	@ 35
Ebony	@	@	@	37 @ 1 00
Apple wood	@	@	@	
Knobs: (℔ *set.*)	@ 8	@ 8	8 @ 10	@ 08
Mineral, best	@ 50	@ 75	65 @ 80	*Not Sold.*
Lava	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Hematite	@ 30	@ 10	25 @ 30	@ 25
Porcelain	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, solid	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Glass, silvered	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Bronze metal	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Brass	@	@	13 @ 16	13½ @ 16
Solder:	@	@ 7½	@ 7	@ 6½
Sheet Lead	@	@ 6½	@ 6½	6 @ 6
Lead Pipe	@			
Iron:				
I-Beams, up to and including 36 ft.	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ½, ¼, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 4-10	3 20 @ 3 70	@ 2 8-10

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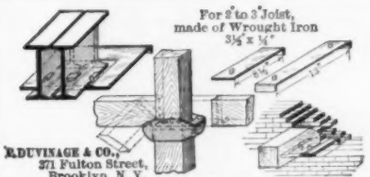

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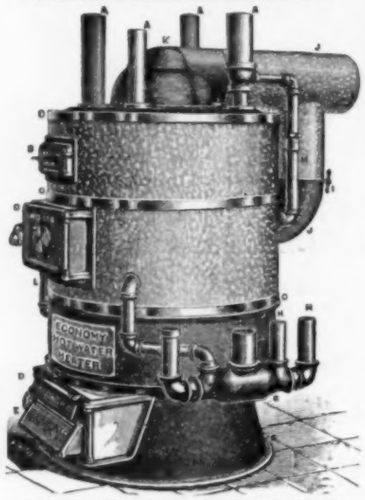

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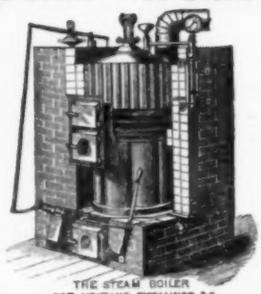

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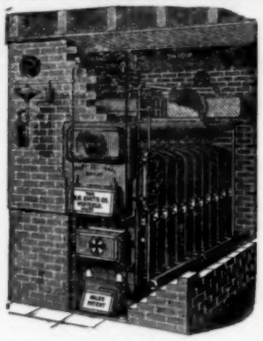

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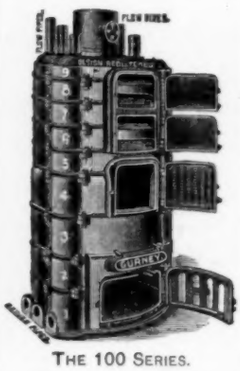

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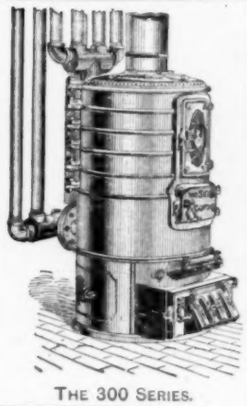

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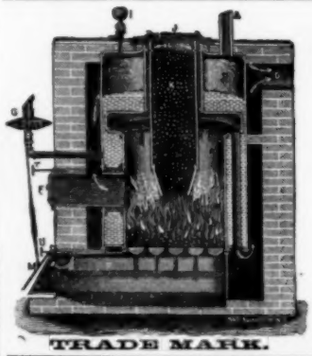

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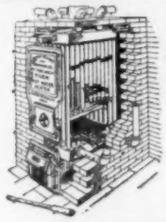

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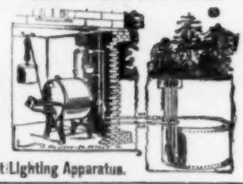

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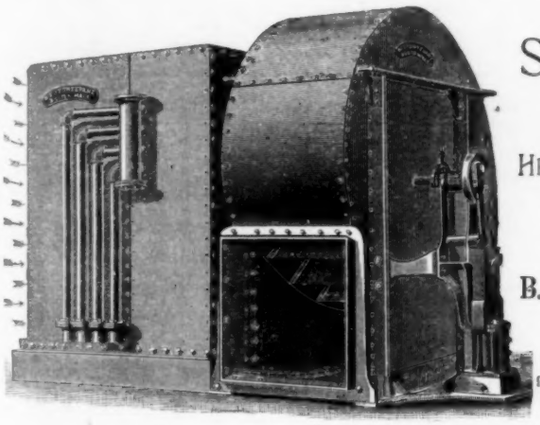

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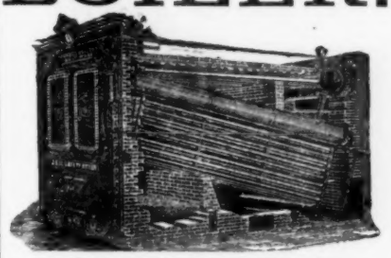

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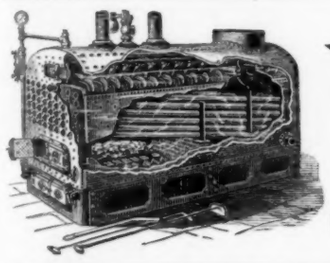

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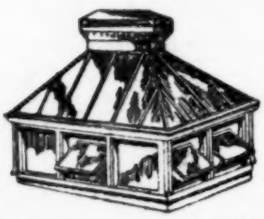

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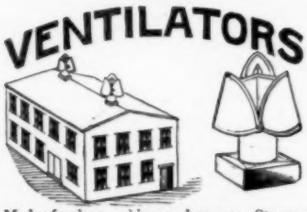

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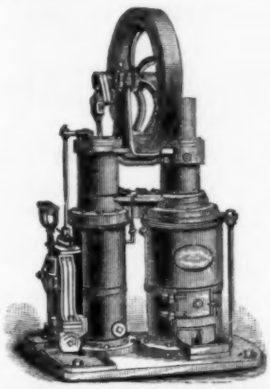

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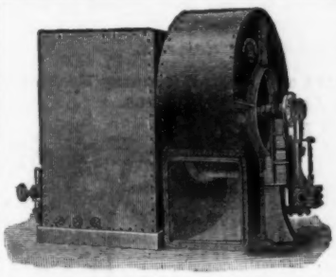

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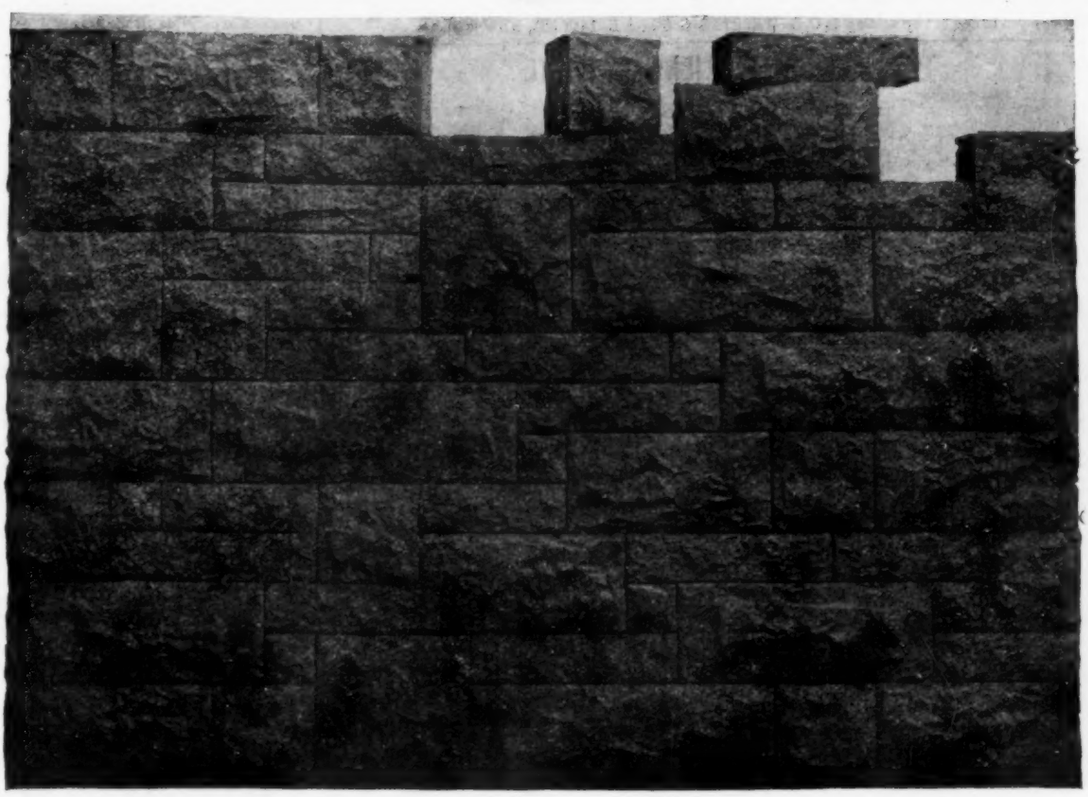

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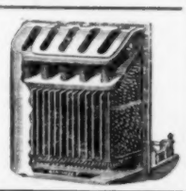

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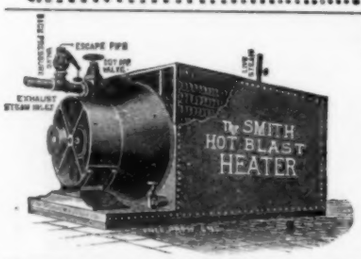

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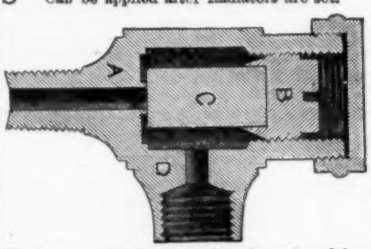

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No. 24.

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—[$500 per Annum.]—

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PERSPECTIVE DRAWING.

The *American Architect* Drawing-Office will undertake the preparation of perspective drawings in line or color from scale drawings, or will render drawings already in outline. Address the editors.

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DRAUGHTSMAN.—Wanted, a first-class draughtsman for general office-work. Address, at once, H. W. Beardsley, Architect, Arcade Building, Niagara Falls, N. Y. 863

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FRANCIS H. CRUESS, architectural artist, is prepared to receive from architects their designs to render in pen-and-ink, monochrome or water-colors. Address 206 North Second Street, Harrisburg, Pa. t.f.

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[*Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.*]

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475,513. TEMPERATURE-REGULATOR. — James F. McElroy, Albany, N. Y.

475,524. ELEVATOR.—Samuel T. Teachout, Cohoes, N. Y.

475,531. DOUBLE DOOR. — George A. Anderson, Greenwood, Mass.

475,533. PERIODICAL FLUSHING-TANK. — Thomas C. Beaumont, New York, N. Y.

475,537. FLUSHING DEVICE FOR WATER-CLOSET BOWLS. — Andrew Cochran and Edward C. Stover, Trenton, N. J.

475,546. WASTE-PIPE TRAP. — Frederick N. Du Bois, New York, N. Y.

475,556. SAFETY-DOOR FOR JAIL-CORRIDORS. — Perley Hale, Chicago, Ill.

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475,686. DOOR-STOP.—Albert Hauck, Jewett, Ohio.

475,739. FASTENER FOR THE MEETING-RAILS OF SASHES.—Milton L. Dudley, Des Moines, Iowa.

475,741. T-SQUARE AND DRAWING-BOARD ATTACHMENT.—Arthur T. Page, Minneapolis, Minn.

475,747. HYDRAULIC BRICK-MACHINE.—Johnston Beggs and Thomas A. Gordon, St. Louis, Mo.

475,754. NEEDLE-BATH APPARATUS. — John Clifford and John H. Gavin, Chicago, Ill.

475,760. VISE.—Clare Ernst, Bay City, Mich.

475,765. FASTENER FOR THE MEETING-RAILS OF SASHES. — James P. H. Gastrell, Wiesbaden, Germany.

475,834. ELEVATOR.—Arthur P. Webb, Hoboken, N. J.

475,842. BUILDING. — Henry Zogmann, New York, N. Y.

475,849. RADIATOR. — Albert M. Dimmick and Jesse T. Morgan, Wilkes-Barré, Pa.

475,851. REFRIGERATOR BUILDING. — Dennis P. Edgar, Manchester, Mich.

475,854.—ROOF, FLOOR OR CEILING.—Godfrey Fugman, Cleveland, O.

475,855. FLOOR-CLAMP. — Orpheus J. Graham, Farwell, Mich.

475,878. HOT-WATER FURNACE. — Eugene S. Manny, Montreal, Canada.

475,903. BURGLAR-ALARM AND DOOR-CLOSING DEVICE.—Gabriel F. Snider, Abingdon, Iowa.

475,921. SHUTTER-FASTENER. — Benny Bernstein, New York, N. Y.

475,922. SPRING-BOLT. — Benny Bernstein, New York, N. Y.

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476,154. WINDOW-SCREEN.—James S. Lester, Atlanta, Ga.

476,185. SHEET-METAL CEILING PANEL. — Frank G. Caldwell, Wheeling, W. Va.

476,224. WATER-TRAP.—James T. Brien, Hoosick Falls, N. Y.

476,230. HOT-AIR FURNACE.—William W. Kelsey, Cortland, N. Y.

See last or next issue for the following advertisements.

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Bridgeport Wood Finishing Co.
Central Expanded Metal Co.
Frost & Adams.
Gorton & Lidgerwood.
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Samson Cordage Works.
J. J. Schillinger.
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N. & G. Taylor Co.
E. Thiele.
A. B. & W. T. Westervelt.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING JULY 1, 1892.

From Antwerp. — Steamer "*Waesland*," 200 iron girders, R. F. Downing & Co.; 2,600 barrels cement, order.

From Bremen.— Bark "*Isabel*," 2,500 barrels Portland cement, Asensche Portland Cement Fabrik. Steamer "*Ebre*," 40 casks asphaltum, Gabriel & Schall; 4,029 cakes do., Chas. W. Saacke.

From Bristol. — Bark "*Johan Ludvig*," 260,000 bath bricks, Hammill & Gillespie.

From Dundee.—Steamer "*Croma*," 1,670 casks Portland cement, Bowring & Archibald; 700 do., E. A. Chatfield; 29 casks glazed bricks, C. R. Weeks & Bros.

From Glasgow. — Steamer "*Norwegian*," 32 blocks stone, A. P. Binswanger; 28 do., G. P. Sherwood; 22 cases granite, New York Granite Co.; 14 do., E. Foley; 3 do., Davidson & Son; 91 do., A. Baldwin & Co.

From Hamburg. — Steamer "*Suevia*," 560 casks cement, Baring Bros. & Co.

From Hull. — Steamer "*Galileo*," 191 casks bricks, Meeker & Carter; 1,440 casks cement, Eisner & Mendelsohn Co.

From Laguna. — Schooner "*Laguna*," 199 logs mahogany, Thebaud Bros. Steamer "*Yumuri*," 86 logs mahogany and cedar, J. M. Ceballos & Co.

From Liverpool. — Steamer "*Cufic*," 442 casks bricks, Howard Fleming; 15 logs wood, order. Steamer "*Greece*," 253 casks bricks, order.

From London. — Steamer "*Mohawk*," 500 casks cement, Hammill & Gillespie; 500 do., order. Steamer "*France*," 500 casks cement, 6 logs hardwood, 4 do. wood, 100 casks cement, order. Steamer "*Buffalo*," 10 cases cement, American Trading Co.; 750 casks do., order.

From Panama.— Steamer "*Newport*," 28 logs wood, D. M. Piza.

From Plymouth. — Steamer "*Thor*," 102 casks bricks, Hammill & Gillespie.

From Rotterdam. — Steamer "*Spaarndam*," 1,000 casks cement, E. Thiele.

From Stettin. — Steamer "*Italia*," 2,655 barrels cement, Eisner & Mendelsohn Co.; 1,000 do., E. Thiele; 1,500 do., 8,191 fire bricks, 144 bags cement, H. Marquardt; 4,000 barrels cement, order.

From St. John, N. B.—Schooner "*Waterside*," 1,755 barrels lime, 275,000 laths, Scammell Bros.

From Vera Cruz. — Steamer "*Yumuri*," 58 blocks marble, O'Kelly & Co.; 217 do., E. Zaranz & Co.; 24 bags asphaltum, Seeger & Guernsey Co.

From Wentworth, N. S.—Schooner "*Grace Davis*," 631 tons plaster, J. F. Whitney & Co.

From Windsor, N. S. — Schooner "*Gypsum King*," 1,075 tons plaster, J. F. Whitney & Co. Schooner "*Mary Lord*," 533 tons plaster, J. F. Whitney & Co. Schooner "*Newburgh*," 1,000 tons lump plaster, J. F. Whitney & Co.

(*Continued on page* xv.)

FACTS ABOUT

HARD OIL FINISH.

IGNORANCE AND BLISS.

There is an old saying that "Where ignorance is bliss, 'tis folly to be wise," and while this may be true as long as ignorance on any subject prevails, when knowledge comes, it abruptly ends the period of bliss.

The application of the old proverb to varnish, and incidentally to the interior finishing of a building is quite apparent.

The general public know but little about varnish, nothing at all as to the adaptability of various varnishes for different uses, and usually depend upon the Architect or Decorator.

As a rule even the public know in a general way that the proper thing to use for interior finishing purposes is Hard Oil Finish, but there is one point they are not so conversant with, viz, that Hard Oil Finish which we originated and christened, *and which is made only by us* is a much counterfeited article, and that unless packages containing it bear the name of Berry Brothers, the contents are spurious, although they may be called (or miscalled) Hard Oil Finish. Supposing one of these counterfeits, miscalled Hard Oil Finish, to have been used, although they frequently betray their unfitness for interior finishing purposes before a job is done, still a temporary finish might be produced to look quite nice and with which the owner would be well pleased (while it lasted). This is the brief period of "blissful ignorance"; the wisdom comes a little later on, when the finish commences to crack or fade, and demonstrates to the owner with convincing though silent eloquence that the wrong goods were used.

In writing his specifications the Architect can save his client all this annoyance by specifying, instead of Hard Oil Finish, "BERRY BROTHERS' HARD OIL FINISH."

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VARNISH MANUFACTURERS,

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PHILADELPHIA, ST. LOUIS,
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Tasteful Embossed Designs Painted in Delicate Tints for first-class Residence Interiors.

Designs furnished and all particulars and instructions by

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Recommended by Architects and Extensively used by Builders.

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Latest, Best and Most Ornamental

Shingle on the market, and *costs less money* than any other.

CORTRIGHT METAL ROOFING CO., PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

ALTERATIONS.

Brooklyn, N. Y. — *Lugueer St.*, n s, 168′ e Court St., one-st'y brick chapel, slate roof, two-st'y brick extension, tin roof, and other alterations; cost, $12,424; owner, Rev. Joseph O'Connell, D. D., Luqueer and Court Sts.; architect, Bernard O'Rourke, 47 Howard Ave.

Clinton St., No. 29, four-st'y brick dwell., tin roof, roof raised and internal and other alterations made; cost, $5,000; owners, Crawford & Valentine, Phœnix Building; architect, Edward Van Voorhis, 903 Kent Ave.

APARTMENT-HOUSES.

Boston, Mass. — *Westland Ave., Nos.* 64-70, Ward 22, 4 four-st'y brick apartments, flat roofs, 24′ x 93′; owner, trustee Mercantile Land Co.; builder, S. Moxom.

Brooklyn, N. Y. — *Eighth Ave.*, n e cor. Eighteenth St., three-st'y brick apartment-house and store, tin roof; cost, $5,000; owner, Wm. Washburn, 426 Eighteenth St.; architect, Robert Dixon, 219 Montague St.

Chicago, Ill. — George E. Marshall, two-st'y flats, 6600 Lafayette St.; cost, $4,500.

George Walther, 2 two-st'y flats, 6422-6424 Sherman St.; cost, $7,000.

Charles Wilbert, two-st'y flats, 1181 Wilston Ave.; cost, $3,500.

Jacob W. Scherner, 2 three-st'y flats, 1491-1493 West Twelfth St.; cost, $12,000.

John Marshback, three-st'y flats, 552 West Chicago Ave.; cost, $4,000.

Michael Burns, three-st'y flats, 225 South California Ave.; cost, $5,000.

James E. Flynn, three-st'y flats, 795-797 West Taylor St.; cost, $5,000.

Carl E. Jacobson, 2 three-st'y flats, 5600-5602 Monroe Ave.; cost, $10,000.

H. Grossman, 7 four-st'y flats, 4755-4759 Evans Ave.; cost, $25,000.

John Hartman, 2 three-st'y flats, 9241-9247 Avenue J; cost, $3,600.

Brokly Bros., 3 three-st'y flats, 609-611 Twenty-eighth St.; cost, $4,000.

W. D. Kerfoot, 3 three-st'y flats, 418 West Division St.; cost, $15,000.

W. B. Wiseman, two-st'y flats, 5606 Ellis Ave.; cost, $4,500.

A. Lindberg, two-st'y flats, 8948 Houston Ave.; cost, $3,000.

Hildra Malingreen, three-st'y flats, 178 Gold Pl.; cost, $3,200.

Robert Walsh, 3 three-st'y flats, 3839-3843 Rhodes Ave.; cost, $18,000.

John Fascher, three-st'y flats, 324 North Paulina St.; cost, $6,000.

Frank Hoffman, two-st'y flats, 928 Turner Ave.; cost, $4,000.

Thomas O'Hara, 2 three-st'y flats, 532-534 Twenty-eighth St.; cost, $12,000.

Emil Faugsted, three-st'y flats, 500 West Erie St.; cost, $5,000.

D. Carl, three-st'y flats, 73 Rees St.; cost, $4,000.

George L. Brown, 2 three-st'y flats, 3447-3449 Rhodes Ave.; cost, $5,000.

L. C. Wagner, two-st'y flats, 6547 Lexington Ave.; cost, $4,000.

Oliver Nelson, four-st'y flats, 3519 Indiana Ave.; cost, $15,000.

F. S. Feninger, three-st'y flats, 1654 Briar Pl.; cost, $6,000.

Hy. Sarvie, two-st'y flats, 339 Wilson Ave.; cost, $4,500.

John Turnell, three-st'y flats, 223 Forty-second St.; cost, $10,000.

Peter Deutsch, two-st'y flats, 1414 Newport Ave.; cost, $3,000.

James Doyle, three-st'y flats, 236 Belden Ave.; cost, $8,000.

Joseph Cormack, 2 three-st'y flats, 4220-4222 Calumet Ave.; cost, $20,000.

M. C. Scott, two-st'y flats, 90 Warren Ave.; cost, $4,500.

C. P. Domsed, three-st'y flats, 913 California Ave.; cost, $11,000.

M. Dunne, two-st'y flats, 1577 Carroll St.; cost, $3,000.

Edward Jones, two-st'y flats, 6529 Yale St.; cost, $4,000.

John Hallak, two-st'y flats, 1394 North Jackson St.; cost, $5,000.

Iron-Work.

JACKSON ARCHITECTURAL IRON WORKS,
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BUILDING INTELLIGENCE.

Andrew Martin, two-st'y flats, 1024 Girard St.; St.; cost, $5,000.
Joseph Mannrick, two-st'y flats, 651 School St.; cost, $3,000.
Sevenne Gunderson, three-st'y flats, 871 North Western Ave.; cost, $4,000.
M. Mendike, three-st'y flats, 21 Kosciusko St.; cost, $4,400.
Johanna Mickley, three-st'y flats, 371 Hastings St.; cost, $3,000.
J. Schlericher, 3 three-st'y flats and barn, 449 South Paulina St.; cost, $7,500.
E. Glienke, two-st'y flats, 380 Hastings St.; cost, $3,500.
William Sweder, three-st'y flats, 248 Mohawk St.; cost, $8,000.
T. Gussman, 2 two-st'y flats, 5622-5624 Dearborn St.; cost, $6,000.
Edward Milke, three-st'y flats, 392 North Hoyne Ave.; cost, $4,500.
John Man, three-st'y flats, 125 Cornell St.; cost, $6,000.
T. M. Schwartz, four-st'y flats, 567 La Salle Ave.; cost, $10,000.
Martin Anderson, 2 two-st'y flats, 153-155 Potomac St.; cost, $10,000.
J. M. Greese, three-st'y flats, 167 Racine Ave.; cost, $4,000.
John Halpuch, three-st'y flats, 17 Utica St.; cost, $3,800.
J. Jaraba, three-st'y flats, 390 Washburn Ave.; cost, $4,400.
Donizus Puzrk, three-st'y flats, 43 Sloan St.; cost, $3,500.
Lauritz Paulsen, two-st'y flats, 739 Seymour St.; cost, $3,400.
Lars. Hansen, two-st'y flats, 641 Grand Ave.; cost. $3,000.
Albert Goldsholm, three-st'y flats, 519-521 Cleveland St.; cost, $9,000.
John Adamowski, three-st'y flats, 579 Francisco St.; cost, $3,000.
I. B. Cutler, two-st'y flats, 5545 Monroe St.; cost, $8,000.
William L. Klewer, 2 two-st'y flats, 2586 Commercial St.; cost, $10,000.
John Vercheck, two-st'y flats, 265 West Webster Ave.; cost, $3,000.
G. W. Flood, 4 two-st'y flats, 1139-1143 West Van Buren St.; cost, $10,000.
John Herimar, 3 two-st'y flats, 9001-9007 Houston Ave.; cost, $8,500.

New York, N. Y. — *West Twenty-seventh St., No.* 323, five-st'y brick flat, tin roof; cost, $18,000; owner, Joseph J. Zimmerman, 445 West Fifty-third St.; architect, James W. Cole, 403 West Fifty-first St.
East Seventy-sixth St., No. 306, five-st'y brick, stone and terra-cotta flat; cost, $24,000; owners, Williams & Jones; architect, Charles Rentz.
Ridge St., No. 92, six-st'y brick and stone flat; cost, $22,000; owner, L. L. Richman; architects, Kurtzer & Rohl.
Eighty-seventh St., n s, 175′ e Avenue A, 4 five-st'y brownstone flats; owner, George Schreimer; three similar buildings adj.; cost, $24,000 each; for Joseph Schreimer; architect, John Hauser.
Madison Ave., s w cor. Ninety-fifth St., seven-st'y brick and brownstone apartment-house; cost, $98,000; owner, Wm. J. Matthews; architect, J. C. Burne.
Morris Ave., w s, 79′ s One Hundred and Forty-ninth St., four-st'y brick flat, tin roof; cost, $15,000; owners, Henry and Meta Fallerman, 529 Morris Ave.; architect, M. J. Garvin, 3311 Third Ave.
Lewis St., e s, 145′ s Stanton St., five-st'y brick flat, tin roof; cost, $18,000; owner, Adolph Mandel, 156 Rivington St.; architect, J. H. Valentine, One Hundred and Twenty-first St. and St. Nicholas Ave.
Lewis St., e s, 25′ s Stanton St., five-st'y brick flat, tin roof; cost, $18,000; owner, Sarah Grosecky, 102 East One Hundred and Ninth St.; architect, J. H. Valentine, One Hundred and Twenty-first St. and St. Nicholas Ave.
Ridge St., No. 92, six-st'y brick flat, tin roof; cost, $22,000; owner, Louis L. Richman, 143 Clinton St.; architects, Kurtzer & Rohl, Seventh St. and Third Ave.
One Hundred and Seventh St., s s, 196′ e Fifth Ave., 4 five-st'y brick flats, tin roofs; cost, $32,000; owner, Luke Connors, 1029 East One Hundred and Thirty-sixth St.; architect, John Hauser, 1441 Third Ave.

St. Louis, Mo. — Two-st'y brick flats; cost, $5,200; owner, J. F. McDermot; contractor, H. W. Kaiser.

FACTORIES.

Worcester, Mass. — *Highland St.*, three-st'y brick and stone factory building; owners, Worcester Polytechnic Institute; contractors, Cutting & Bishop; architects, Earle & Fisher.

HOUSES.

Brooklyn, N. Y. — *Twelfth St.*, n s, 80′ e Fourth Ave., 3 three-st'y brick dwells., tin roofs; cost, $4,500 each; owner, A. G. Caller, 420 Eighth St.; architect, W. M. Calder, 420 Eighth St.
Bainbridge St., w s, 200′ e Stuyvesant Ave., 9 three and two-and-one-half-st'y brick dwells., tin roofs; cost, $45,000; owner, David Beasley, 187 Van Brunt St.; architect, M. Dahlander, 1082 Bedford Ave.
Willoughby Ave., s s, 225′ e Evergreen Ave., four-st'y frame dwell., tin roof; cost, $6,000; owner and builder, Daniel Kreuder, 994 Willoughby Ave.; architect, Th. Engelhardt, 905 Broadway.
Macon St., n s, 580′ e Ralph Ave., 4 two-st'y brick dwells., tin roofs; cost, $4,200 each; owner and architect, B. C. Raymond, 164 Ralph St.
De Kalb Ave., s s, 100′ w Knickerbocker Ave., two-st'y frame dwell. and stable, tin roof; cost, $3,200; owner, architect and builder, G. Koch, 200 Knickerbocker Ave.
Macon St., s s, 190′ e Lewis Ave., three-st'y brick dwell., tin roof; cost, $7,000; owner, G. H. Stevens, 270 Lewis Ave.; architect, J. S. Stevens, 537 Monroe St.
Greene Ave., s s, 100′ e Wyckoff Ave., three-st'y frame dwell., tin roof; cost, $3,000; owner, Joseph Schneider, 251 Ellery St.; architects, D. Acker & Son, 752 Broadway.
Montauk Ave., e s, 170′ e Eastern Parkway, 2 two-st'y dwells., tin roofs; cost, $2,000 each; owner, John Barrett, Dumont Ave.
Jefferson St., n s, 190′ e Bremen St., four-st'y frame dwell., tin roof; cost, $5,000; owner, John Muller, 69 Jefferson St.; architect, H. Vollweiler, 483 Hart St.
Knickerbocker Ave., w s, 50′ s Harman St., four-st'y frame dwell., tin roof; cost, $6,000; owner and builder, Philip Bossert, 142 Sumner Ave.; architect, H. Vollweiler, 483 Hart St.
Buffalo Ave., e s, 27′ 6″ n Pacific St., 4 three-st'y frame dwells., tin roofs; cost, $14,000; owner and builder, Walter Cosins, 50 Bleecker St.; architect, H. Vollweiler, 483 Hart St.
First Pl., n s, 151′ w Court St., 2 five-st'y brick dwells., tin roofs; cost, $25,000; owner, George Wilkes, 88 First Place; architect, F. Jacobsen, 81 Maiden Lane, New York City.
Garfield Place, n s, 312′ 5″ e Eighth Ave., 3 three-and-one-half-st'y brick dwells., tin roofs; cost, $10,000 each; owner, Wesley C. Bush, 137 St. Mark's Ave.; architect, M. Dahlander, 1082 Bedford Ave.
Forty-eighth St., n s, 200′ e Third Ave., 3 three-st'y brick dwells., tin roofs; cost, $4,000 each; owner, James Burke, Forty-seventh St., rear Third Ave.; architects, H. L. Spicer & Son, Third Ave. and Fifty-third St.
Garfield Place, n s, 250′ e Eighth Ave., 3 three-st'y brick dwells., tin roofs; cost, $9,000 each; owner, Wesley C. Bush, 137 St. Mark's Ave.; architect, M. Dahlander, 1082 Bedford Ave.
Prospect Ave., s s, 176′ 6″ w Fifth Ave., four-st'y brick dwell., tin roof; cost, $7,000; owner, architect and builder, Patrick B. Hanlon, 276 Prospect Ave.
Bushwick Ave., w s, 50′ s Gates Ave., two-st'y frame dwell., tin roof; cost, $5,000; owner, Wm. Andrew, Bushwick Ave., cor. Palmetto St.; architect, Th. Engelhardt, 905 Broadway.

Chicago, Ill. — E. H. Carqueville, two-st'y dwell., 3127-3129 Beacon St.; cost, $5,000.
Henry Bosch, two-st'y dwell., 5410 Madison Ave.; cost, $3,000.
Dr. A. Brooks, 5 three-st'y dwells., 4533-4541 Lake Ave.; cost, $24,000.
George A. Tripp, three-st'y dwell., 5022 Greenwood Ave.; cost, $10,000.
Henry Beneckee, three-st'y dwell., 1953 Denning Ct.; cost, $4,300.

BUILDING INTELLIGENCE.

Mrs. George R. Hastings, two-st'y dwell., 4322 Emerald Ave.; cost, $3,200.
Mrs. R. Williams, two-st'y dwell., 4326 Emerald Ave.; cost, $3,200.
George A. Severns, four cottages, 1518-1524 Thirty-fourth St.; cost, $3,400.
George A. Severns, four cottages, 1369-1380 James St.; cost, $3,400.
J. L. Cochrane, 3 two-st'y dwells., cor. Kenmore St. and Glenlake Ave.; cost, $22,500.
Dr. J. Johnson Bell, three-st'y dwell. and barn, 342 Fullerton Ave.; cost, $20,000.
E. W. Bromilon, three-st'y dwell., 1746 Wright wood Ave.; cost, $7,000.
F. L. Chapman, three-st'y dwell., 42 Roslyn Pl.; cost, $7,000.
A. Mitchells, three-st'y dwell., 540 Bryant St.; cost, $4,000.
Edward Hayes, two-st'y dwell. and barn, 572 Byron St.; cost, $5,500.
C. M. Spaulding, two-st'y dwell. and barn, 522 Byron St.; cost, $6,200.
L. J. Benedict, two-st'y dwell., 402 Washington Boulevard; cost, $3,000.
D. A. Meeder, four cottages, 6030-6036 Ada St.; cost, $4,000.
Wallace de Wolf, two-st'y dwell., 4715 Woodlawn Ave.; cost, $7,500.
James Leinders, three-st'y dwell., 4625 Lake Ave.; cost, $7,000.
F. A. Wells, two-st'y dwell., 6704 Stewart Ave.; cost, $5,000.
Hobart C. Taylor, 4 four-st'y dwells., 2209-2213 Prairie Ave.; cost, $18,000.
E. O. Sewall, two-st'y dwell., 1837 Palmer St.; cost, $4,000.
E. P. Hilliard, two-st'y dwell., Prospect Ave. and Ninety-fifth St.; cost, $3,500.
Christ Velman, three-st'y dwell., 1530 West Sixteenth St.; cost, $3,000.
M. Peter, three-st'y dwell., 1331 Oakdale St.; cost, $8,000.
Joseph Levisey, three-st'y dwell., 1071 Warren Ave.; cost, $10,000.
A. C. Chandler, three-st'y dwell., 3314 South Park Ave.; cost, $18,000.
E. F. Gahel, three-st'y dwell., 230 South Ashland Ave.; cost, $3,000.
Melville W. Fuller, 9 three-st'y dwells., 3600-3616 Lake Ave.; cost, $80,000.
Henry Falker, three-st'y dwell. and barn, 4423 Drexel Boulevard; cost, $12,000.
Albert Mendell, 4 five-st'y dwells., 4400-4406 Michigan Ave.; cost, $50,000.
William Ashton, two-st'y dwell., Pleasant Ave. and Ninety-third St.; cost, $4,000.

(*Continued on page* xix.)

The Red Sandstone from the quarries of the Potsdam Red Sandstone Company, of Potsdam, N. Y., is

EXCELLED BY NO STONE IN BEAUTY OF COLOR OR EFFECT.

Friends of beautiful and enduring architecture should investigate the claims of this material.

The following by Dr. J. S. Newberry, Professor of Geology in Columbia College School of Mines, and one of the highest living authorities on subjects of this character, refers to stone from the quarries of this Company:

"The element of beauty is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz, are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C."

Thoroughly developed quarries and a plant of modern power machinery insure prompt fulfilment of contracts.

The following tests were made at the laboratory of Rutger's College Scientific School, for Dr. Smock, who was then New York State Economic Geologist, by Dr. Francis A. Wilber, Professor of Analytical Chemistry:

A large number of stones were under investigation at the same time.

Subjected to the severest freezing and thawing tests, Potsdam sandstone was absolutely unchanged.

Submitted to the continued action of dilute sulphuric acid, Potsdam sandstone lost less in weight than any other stone, viz. two one-hundredths of one per cent, some stones losing over three hundred times as much (over six per cent). This result is of the utmost importance in view of the amount of this acid constantly present in the air of our cities, and perhaps promoting the decay of building stones used in them, as much as any other one cause.

The percentage of loss or gain in weight when immersed in sulphurous acid gas, was in the case of Potsdam sandstone six one-thousandths of one per cent only, many other stones being affected to an amount from ten to seventy times greater.

Prof. Thos. Egleston, Professor of Mineralogy, Columbia College School of Mines, and a very high authority on the subject, in a paper read before the American Society of Civil Engineers, on "The Decay of Building Stone," says:

"Of the sandstones having a silicious binding material, Potsdam sandstone which has been used in Columbia College, and the silicious triassic sandstone, which was the material used in the lower part of the cathedral at Rodez, are the best examples, and in these no decomposition takes place. Of these sandstones it will be noticed that there are two general varieties, one in which the quartz grains are more or less large, and are rounded, but are cemented together by silica. . . . In the Potsdam sandstone, on the contrary, the grain of the quartz is quite small; its shape when it can be distinguished at all by a magnifying glass, is always angular. . . . *This is the best of all building-materials*, though mouldings made of the other variety [large grains] will last for many years without suffering any appreciable amount of deterioration."

Architects who have not samples of this Stone on file in their collection should apply to the Potsdam Red Sandstone Company, Potsdam, N. Y., who will forward samples pre-paid.

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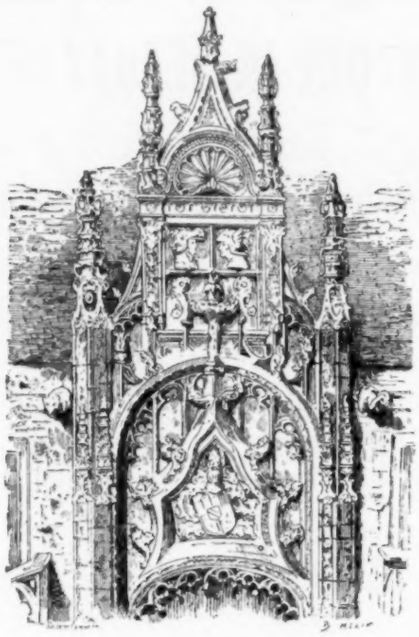
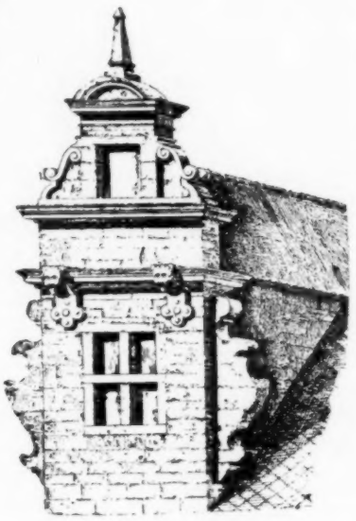
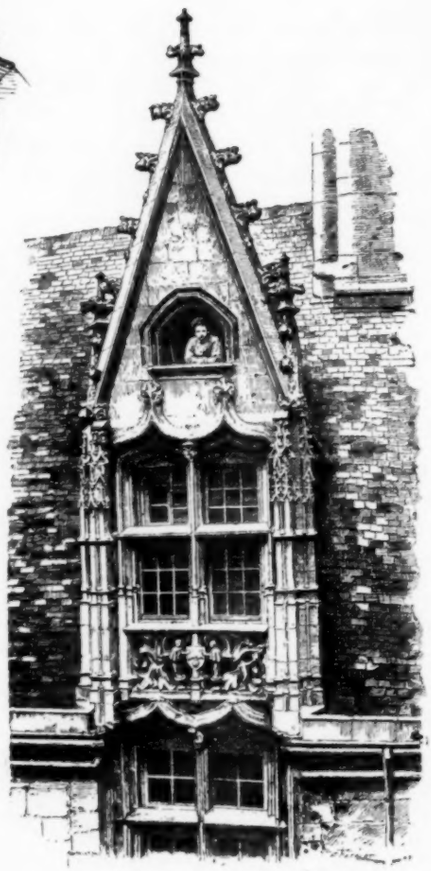


Ducal Palace, Nancy, France.



From the Castle at Münden.



XV Century Dormer, Dijon, France.

DORMERS.

J. W. Gunning, 5 two-st'y dwells., 1734-1746 Twenty-third St.; cost, $7,500.

Detroit, Mich. — Louis Stork, frame dwell., 701 National Ave.; cost, $3,800.

Andrew Longe, four brick dwells., 168-174 Sixth St.; cost, $12,000.

Deitrichs Bros., brick dwell., 53 Forest Ave.; cost, $4,000.

W. J. Ward, four frame dwells., 235, etc., Twenty-second St.; cost, $7,000.

H. A. Apel, brick dwell., 638 Trumbull Ave.; cost, $7,000.

E. A. Waterfall, three frame dwells., 274-278 Merrick Ave.; cost, $8,000.

A. C. Varney & Co., double brick dwell., 47-49 Charlotte Ave.; cost, $7,000; double brick dwell., 164-166 Charlotte Ave.; cost, $8,000; double brick dwell., 37-39 Selden Ave.; cost, $8,000; two brick dwells., 85 and 88 Forest Ave.; cost, $16,000; brick dwell., 629 Trumbull Ave.; cost, $6,000; and frame dwell., 25 Putnam Ave.; cost, $5,000.

G. Vivier & Sons, four brick dwells., 543-549 John R St.; cost, $12,000.

Jos. Gutow, two frame dwells., 46-48 Smith Ave.; cost, $4,000.

J. R. Gentle, brick dwell., 196 Bagg St.; cost, $7,000.

Thos. J. Ward, three frame dwells., 281, etc., Twenty-second St.; cost, $5,000.

New York, N. Y. — *One Hundred and Thirty-sixth St.*, s s, 250′ e Seventh Ave., 3 three-st'y brick dwells., tin roofs; cost, $45,000; owner, Edward J. Kelly, One Hundred and Sixty-fifth St. and Prospect Ave.; architect, G. R. Schellinger, 128 Broadway.

Scott Ave., s e cor. Hull Ave., three-st'y brick and frame dwell., peaked slate and tin roof; cost, $4,000; owner, Henry Weiberg, Jr., 118 East Eleventh St.; architect, J. J. Vreeland, 711 East One Hundred and Seventy-seventh St.

One Hundred and Seventy-first St., n s, 100′ Audibon Ave., two-st'y brick dwell., tin roof; cost, $3,000; owner, Mrs. Mary J. Hardy, 333 West Thirty-first St.; architect, Charles Sidney, 250 West One Hundred and Twenty-fifth St.

One Hundred and Seventieth St., s s, 90′ e Webster Ave., 2 three-st'y brick and frame dwells., tin roofs; cost, $8,000; owner, Louis Kayser, Webster Ave and Anna Pl.

One Hundred and Nineteenth St., n s, 100′ w Lenox Ave., three-st'y brick dwell., tin roof; cost, $7,000; owners, F. A. Hunter, Massachusetts, and Charles A. Peck, 2011 Lexington Ave.; architect, Thos. M. Fanning, 127 East One Hundred and Seventeenth St.

One Hundred and Nineteenth St., n s, 133′ 4″ w Lenox Ave., three-st'y brick dwell., tin roof; cost, $7,000; owner, Francis A. Hunter, Newton Centre, Mass.; architect, Thos. M. Fanning, 127 East One Hundred and Seventeenth St.

One Hundred and Nineteenth St., n s, 116′ 8″ w Lenox Ave., four-st'y brick dwell., tin roof; cost, $8,000; owner and architect, Thomas M. Fanning, 127 East One Hundred and Seventeenth St.

One Hundred and Seventieth St., n e cor. Webster Ave., three-st'y brick and frame dwell., tin roof; cost, $6,500; owner, August Hauselman, 3083 Third Ave.; architect, Chas F. Lohse, 3055 Third Ave.

Seventy-first St., adjoining Christ Church, four-st'y brick, stone and terra-cotta rectory; architects, Rose & Stone.

Seventy-second St., s s, bet. Fifth and Madison Aves., five-st'y granite dwell.; owner, Jos. Agostine; architects, Rose & Stone.

Eighty-first St., s s, 275′ w Columbus Ave., 4 four-st'y brownstone dwells.; cost, $85,000; owners, Giblin & Taylor; architects, Neville & Bagge.

West End Ave., w s, bet. Ninety-sixth and Ninety-seventh Sts., three brick and stone dwells.; cost, $45,000; owner, Joseph A. Vandewater; architects, Sibell & Miller.

Western Boulevard, s e cor. One Hundred and Forty-second St., 17 three-st'y brownstone dwells.; cost, $275,000; owner, Andrew L. Judge; architect, John C. Burne.

Philadelphia, Pa. — *Spring Garden St.*, n s, bet. Thirty-ninth and Fortieth Sts., three-st'y stone and brick dwell.; builder, F. L. Michaelson, 4019 Lancaster Ave.

Spruce St., n s, bet. Forty-fourth and Forty-fifth Sts., 2 three-st'y brick dwells.; contractor, Thomas Marshall, 259 South Forty-fourth St.

Pine St., e Forty-fifth St., three-st'y brick dwell.; contractor, John A. Palmer, 233 South Fortieth St.

Columbia Ave., s s, w Hollinger St., 4 three-st'y brick dwells.; owners, Pemberton & Co., 611 Drexel Building.

Hollinger St., w s, s Columbia Ave., 10 two-st'y stone and brick dwells.; owners, Pemberton & Co., 611 Drexel Building.

Percy St., w s, n Indiana Ave., 3 two-st'y stone and brick dwells.; owner, John Loughran, 2338 North Broad St.

Indiana Ave., n s, w Germantown Ave., 3 two-st'y brick dwells.; owner, John Loughran, 2338 North Broad St.

Tulip St., w s, s Salters Lane, 3 two-st'y brick dwells.; builders, Wilson, Milnor & Co., Penn St., s w cor. Allens St.

Harrison St., s s, e Frankford Ave., 3 two-st'y brick dwells.; builder, W. S. Roberts, 4915 Penn St.

Dauphin St., n s, bet. Ninth and Tenth Sts., 3 three-st'y brick dwells.; builder, D. C. Schuler, 2327 North Sixth St.

Wayne St., e s, s Manheim St., three-st'y stone and frame dwell.; owner, Gilbert Weir, cor. Germantown and Chelten Aves.

Hazel Ave., s s, w Sixty-first St., two-st'y frame dwell.; builder, Jacob Zell, Cardington, Delaware Co., Pa.

Farragut St., e s, s Springfield Ave., 4 three-st'y brick and stone dwells.; owner, John Devlin, cor. Dickinson and Twenty-third Sts.

Adelaide St., s s, bet. Fiftieth and Fifty-first Sts., 2 two-st'y brick dwells.; owner, W. S. P. Shields, 3908 Baltimore Ave.

Fiftieth St., n Greenway Ave., 10 two-st'y brick dwells.; owner, W. S. P. Shields, 3908 Baltimore Ave.

Providence, R. I. — *Ring St.*, e s, near Tobey St., two-and-one-half-st'y frame dwell.; cost, $3,800; owner, Samuel J. Burke; builder, Thos. W. Barry.

Prairie Ave., e s, near Early St., two-and-one-half-st'y frame dwell.; cost, $3,000; owner, Frank Hanney; architect, Howard K. Hilton; builder, Wm. Halcrow.

Wood St., n s, three-st'y frame dwell.; cost, $6,000; owner and builder, Oscar F. Lee.

Somerville, Mass. — *Flint St.*, frame dwell., 23 x 28′; owners and builders, Hudson & Lewis.

Dickinson St., near Beacon St., frame dwell., 22′ x 30′; owner and builder, James Elston.

Holland St., near Thorndike St., frame dwell., 26′ x 45′; owner, W. A. Jackson; builder, S. L. Cummings.

Pleasant Ave., near Vinal Ave., frame dwell., 25′ x 45′; owner and builder, H. P. Colson.

Meacham St., frame dwell., 22′ x 31′; owner, A. J. Taylor; builder, A. R. Lewis.

Sewell St., near Temple St., frame dwell., 24′ x 36′; owner, D. E. Hennessey; builder, C. W. Allen.

Endicott Ave., near Broad St., frame dwell., 24′ x 43′; owner, Theodore Peters; builder, John Fenton.

Belmont St., near Highland Ave., frame dwell., 41′ x 59′; owner, James Owens; builder, Thomas Keating.

Vernon St., No. 78, frame dwell., 20′ x 30′; owner, Henry A. Rearson; builders, Griffin Bros.

Medford St., near Central St., frame dwell., 27′ x 40′; owner, E. T. Burnett; builder, Chas. Donkin.

St. Louis, Mo. — Two-st'y brick dwell.; cost, $4,200; owner, H. Hollman; contractor, F. W. Rocklage.

Two-and-one-half-st'y brick dwell.; cost, $4,000; owner, L. Jacob; contractor, Ph. Lauerwein.

Two-st'y brick dwell.; cost, $3,700; owner, S. A. Messerly; contractors, N. Stumper & Bro.

Two-st'y brick dwell.; cost, $4,500; owners, Conliff & Schelp; contractors, Conliff Bros.

Two-st'y brick dwell.; cost, $2,800; owner, T. J. Keil; contractor, Nic Schwagler.

Two-and-one-half-st'y brick dwell.; cost, $6,000; owner, T. A. Bartlett; contractor, Geo. Ibus.

Four two-st'y brick dwells.; cost, $3,000 each; owner and contractor, M. B. Scanlon.

Two-st'y brick dwell.; cost, $3,000; owner, Miss L. Hanley; contractors, Cross, Wall & Crawford.

Two-st'y brick dwell.; cost, $4,900; owner, Mrs. C. Nordhaus; contractors, J. P. Riechers & Son.

Two-and-one-half-st'y brick dwell.; cost, $13,500; owner, Jacques Levy; contractor, R. W. Morrison.

Two-st'y brick dwell.; cost, $5,400; owner, Frank Nagel; contractor, Aug. Wimpler.

Worcester, Mass.—*Newbury St.*, four-st'y brick and stone dwell.; owner and contractor, G. W. Houck; architect, W. H. Harvey.

Cedar St., two-st'y frame dwell.; owners, Church of Unity; contractor, B. C. Jaques; architects Barker & Nourse.

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Epmar St., two-st'y frame building; owner, Quinsigamond Temperance Society; contractor, L. M. Peterson.

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Fountain St., two-st'y frame dwell.; owner, Stephen C. Earle, trustee; architects, Earle & Fisher.

OFFICE-BUILDINGS.

New York, N. Y. — *East Seventeenth St., No.* 125, two-st'y brick office-building, tin roof; cost, $25,000; owner, Francis Crawford, 114 West Seventy-second St.; architect, Henry Anderson 1180 Broadway.

SCHOOL-HOUSES.

Brooklyn, N. Y. — *Monroe Pl.*, e s, 90′ n Pierrepont St., three-st'y brick school, tin roof; cost, $5,000; owner, C. Hall, 50 Monroe Pl.; architects, Allan Bros. & Co., Arbuckle Building.

STABLES.

Brooklyn, N. Y. — *Waverley Ave.* w s, between Willoughby and De Kalb Aves., three-st'y brick stable and dwell., tin roof; cost, $7,000; owner, F. A. Schroeder; architect, C. F. Eisenach, 59 Court St.

New York, N. Y. — *East One Hundred and Seventeenth St., Nos.* 315-317, three-st'y brick stable, tin roof; cost, $20,000; owner, N. Y. Condensed Milk Co., 71 Hudson St.; architect, M. V. B. Ferdon, 265 West Thirty-fourth St.

Sixty-third St., n s, 100′ w Central Park West, four-st'y brick stable, tin roof; cost, $14,000; owner, Peter Farley, 10 West Eighty-fourth St.; architect, M. V. B. Ferdon, 265 West Thirty-fourth St.

West Thirty-ninth St., No. 535, two-st'y brick stable, tin roof; cost, $3,000; owner, J. M. & P. Scanlan, 135 West Sixty-first St.

Columbus Ave., No. 153, five-st'y brick stable, tin roof; cost, $23,000; owner, Conrad Michaels, 155 Columbus Ave.; architects, Thom & Wilson, 1267 Broadway.

STORES.

Brooklyn, N. Y. — *Jay St.*, n w cor. Fulton St., seven-st'y brick store, tin roof; cost, $150,000; owner, Jacob Rothschild, 56 West Fourteenth St., New York City; architect, C. F. Eisenach, 59 and 61 Court St.

Broadway, e s, 88′ n Cook St., five-st'y brick store, tin roof; cost, $23,000; owners, Chas. Gomer's Sons, 13 to 21 Ewen St.; architect, Th. Engelhardt, Wall St. and Broadway.

Bedford Ave., n e cor. Lynch St., four-st'y brick store and dwell., tin roof; cost, $12,000; owner, Wm. P. Ryan, Myrtle Ave. and Keap St.; architect, I. D. Reynolds, 363 Fulton St.

Fifth Ave., w s, from Warren Ave. to St. Mark's Pl., 8 four-st'y brick stores and dwells., tin roofs; cost, $7,000 each; owner and builder, Chas. Hagadon, 231 Thirteenth St.; architect, Geo. M. Miller, 261 Thirteenth St.

Harmon St., s w cor. Knickerbocker Ave., 2 four-st'y frame stores and dwells., tin roofs; cost, $7,000 each; owner and builder, Philip Bossert, 142 Sumner Ave.; architect, H. Vollweiler, 483 Hart St.

New York, N. Y. — *Sixth Ave., Nos.* 225-227, five-st'y brick store, tin roof; cost, $80,000; owner, J. J. Coogan, 564 Fifth Ave.; architects, Lienean & Nach, 64 Cedar St.

Park Pl., Nos. 68, 70, 72, five-st'y brick store, tin roof; cost, $20,000; owner, Columbia College of New York; lessee, Hannah A. Crain, 54 East Fifty-third St.; architect, Geo. B. Post, 53 East Seventeenth St.

Frankfort St., No. 9, two-st'y brick store, tin roof; cost, $10,000; owner, Julia R. Foley, 79 East One Hundred and Twenty-fourth St.; architect, John P. Leo, 38 Park Row.

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TENEMENT-HOUSES.

New York, N. Y.—*West Fifty-first St., No.* 549, five-st'y brick tenement, tin roof; cost, $14,000; owner, Edward D. Lowry, 551 West Fifty-first St.; architect, James W. Cole, 403 West Fifty-first St.

One Hundred and Seventeenth St., s s, 95′ e Park Ave., five-st'y brick tenement, tin roof; cost, $14,000; owner, Francis J. Hillenbrand, 106 West Ninety-fifth St.; architect, Edward Wenz, 1491 Third Ave.

Baxter St., No. 8, five-st'y brick tenement, tin roof; cost, $24,000; owner, Herman Epstein, 234 Henry St.; architect, Charles Rentz, 153 Tenth Ave.

One Hundred and Forty-eighth St., n s, 100′ w Brook Ave., four-st'y brick tenement, tin roof; cost, $10,000; owner, Frederic W. Meeske, 627 Courtland Ave.; architect, Ferd. J. Miller, 727 East One Hundred and Sixty-third St.

Courtland Ave., w s, 50′ n One Hundred and Fifty-fifth St., four-st'y brick tenement, tin roof; cost, $12,000; owner, Wilhelmine Fisher, Courtland Ave. and One Hundred and Fifty-fifth St.; architect, Adolph Pfeiffer, 3068 Third Ave.

Morris Ave., w s, 25′ n One Hundred and Fifty-second St., four-st'y brick tenement, tin roof; cost, $13,000; owner, Joseph Eagan, 533 East One Hundred and Forty-eighth St.; architect, W. J. Garvin, 331 Third Ave.

One Hundred and Forty-sixth St., n s, 225′ e Willis Ave., four-st'y brick tenement, tin roof; cost, $11,000; owner, Ellen Jones, 726 East One Hundred and Forty-sixth St.; architect, Adolph Pfeiffer, 3068 Third Ave.

St. Louis, Mo.—Two-st'y brick tenement; cost, $2,500; owner, Mr. Howard; contractors, N. Stumper & Bro.

MISCELLANEOUS.

New York, N. Y.—*Third Ave.*, n w cor. One Hundred and Seventh St., five-st'y brick halls and meeting rooms, tin roof; cost, $50,000; owner, Philip Braender, 15 East Ninety-third St.; architects, Graul & Frohne, 215 Bowery.

St. Louis, Mo.—Two-st'y brick storehouse; cost, $4,000; owners and contractors, Armour Packing Co.

One-st'y brick freight station; cost, $34,000; owner, Terminal Railroad Association; contractor, W. A. Miller.

Worcester, Mass.—*Bridge St.*, three-st'y brick and stone building; owner, E. T. Smith; contractors, W. F. Dearborn & Son; architect, A. P. Cutting.

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Treasury Department, Office Supervising Architect, Washington, D. C., June 29, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 27th day of July, 1892, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except plumbing and heating apparatus) of the United States Post-office building at Ashland, Wis., in strict accordance with drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Ashland, Wis. Each proposal must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposals for the Erection and Completion (except Plumbing and Heating Apparatus) of the United States Post-office building at Ashland, Wis.," and addressed to W. J. EDBROOKE, Supervising Architect. 864

Treasury Department, Office Supervising Architect, Washington, D. C., July 2, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 2d day of August, 1892, and opened immediately thereafter for all the labor and materials required for the excavation, foundations, cut-stone and brick work, iron and wood floor and roof construction, roof covering, approaches, etc., for the United States Post-office building at Fort Dodge, Iowa, in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Fort Dodge, Iowa. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Excavation, Foundations, Cut-stone and Brickwork, Iron and Wood Floor and Roof Construction, etc., for the United States Post-Office Building at Fort Dodge, Iowa," and addressed to W. J. EDBROOKE, Supervising Architect. 864

Treasury Department, Office Supervising Architect, Washington, D. C., June 23, 1892. Sealed proposals will be received at this office until two o'clock P. M. on the 21st day of July, 1892, and opened immediately thereafter, for all the labor and materials required for the trench excavation, foundations, cut-stone and brickwork of the basement and area walls, basement columns, first floor beams, girders and wood joists for the United States Court-house and Post-office building at Tallahassee, Fla., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Tallahassee, Fla. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Trench Excavation, Foundations, Cut-stone and Brickwork, etc., for the Basement and Area Walls, etc., for the United States Court-house and Post-office building at Tallahassee, Fla.," and addressed to W. J. EDBROOKE, Supervising Architect. 863

Treasury Department, Office Supervising Architect, Washington, D. C., June 24, 1892. Sealed proposals will be received at this office until two o'clock, P. M. on the 19th day of July, 1892, and opened immediately thereafter, for all the labor and materials required for concrete and stone footings, etc., for the United States Post-office building at Washington, D. C., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent on the building site. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids and to waive any defect or informality in any bid or in the requested letters to accompany bids, if it be deemed in the interest of the Government to do so. Proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Concrete and Stone Footings, etc., for the United States Post-office building at Washington, D. C.," and addressed to W. J. EDBROOKE, Supervising Architect. 863

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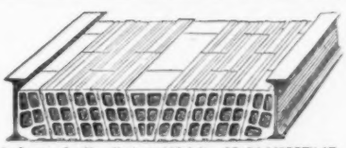
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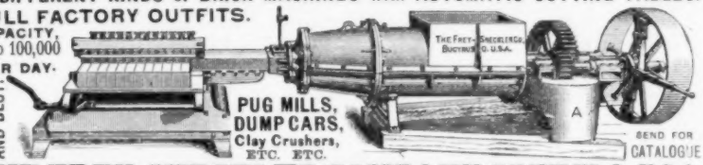

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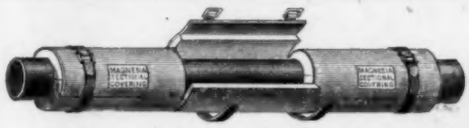

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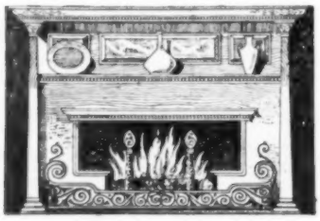

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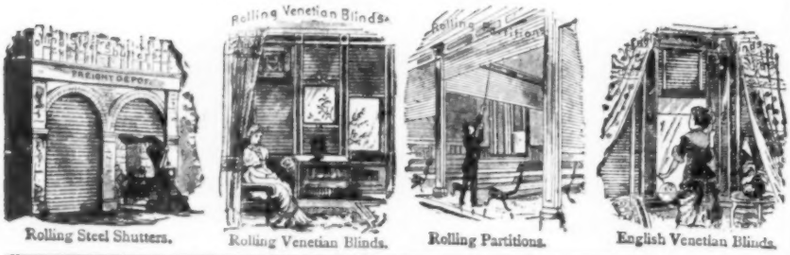

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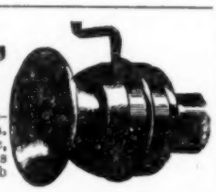

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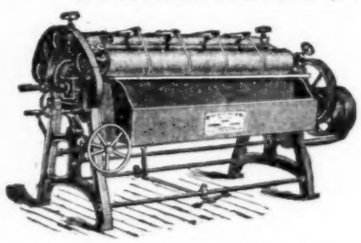

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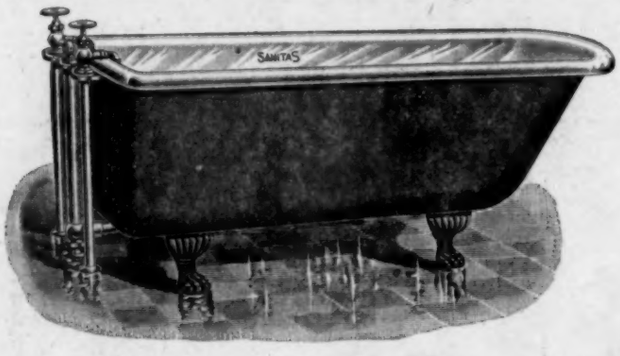

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Maple	45 00 @ 50 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
Oak, red	@ 70 00	@ 50 00	32 00 @ 40 00	45 00 @ 55 00
" white	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	35 00 @ 50 00	57 50 @ 65 00
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State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
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" (Goat)	21 @ 25	@ 30	30 @ 35	20 @ 25
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	30 @ 35
STONE. (₱ *cubic foot, rough.*)				@ 1 50
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		35 @ 60	75 @ 1 50
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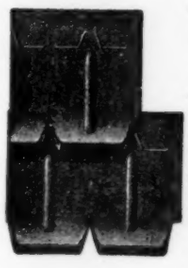

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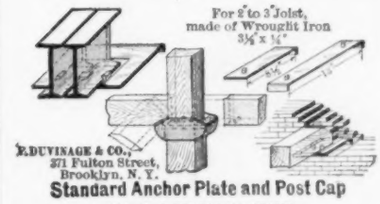

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Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in. th. 10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	} 55 @ 1 00
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	225 @ 4 00
" " Chapmans	@	@	7 30 @ 8 00	00 @ 4 65
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am ...℔ M	@	@	*Not Sold.*	@ 25 00
N. Peach Bottom, warranted unfading	@	@	@	6 00 @ 6 75
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	42 @ 43	57 @ 60	@ 60
" " boiled	58 @ 65	45 @ 46	60 @ 63	@ 63
Turpentine	36 @ 37	@ 35	51 @ 51	@ 44
Varnish, coach	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting (℔ cwt.)	75 @ 1 00	1 @ 1½	1 @ 1½	3 @ 1
Paris white, (Eng.)	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask
Butts: 4" x 4" ..... (℔ doz. pairs.)	@ 1 00	@ 1 20	@ 90	2 90 (all kinds.)
Plain	@ 1 50	@ 1 75	*Not Sold.*	@ 90
Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 00
Acorn, Japanned	@ 65	@ 50	*Not Sold.*	1 35 @ 2 75
Ball Tip, Boston Finish ....(℔ pair.)	@ 1 90	plain 1 65	2 00 @ 3 25	48 @ 50
Bronze metal	@ 10	@ 10	@ 12	@ 1 25
Brass (for cupboards.)	@	@	@	@ 1 00
Ebony	@	@	@	@ 35
Apple wood				37 @ 1 00
Knobs: (℔ *set.*)				
Mineral, best	@ 8	@ 8	8 @ 10	@ 08
Lava	@ 50	@ 75	65 @ 80	*Not Sold.*
Hemacite	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Porcelain	@ 30	@ 10	25 @ 30	@ 25
Glass, solid	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, silvered	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:	@	@	13 @ 16	13½ @ 16
Sheet Lead	@	@ 7½	@ 7	@ 6¾
Lead Pipe	@	@ 6½	@ 6½	6 @ 6
Iron:				
I-Beams, up to and including 36 ft	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ¼, ½, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 4-10	3 20 @ 3 70	@ 2 8-10

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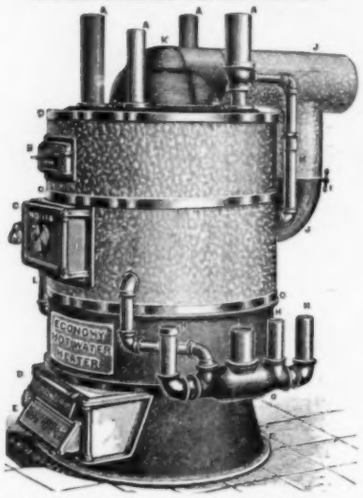

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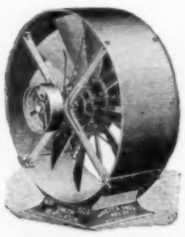

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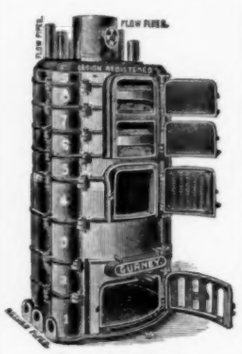

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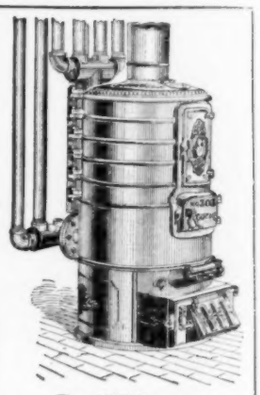

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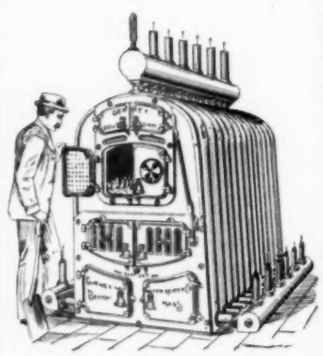

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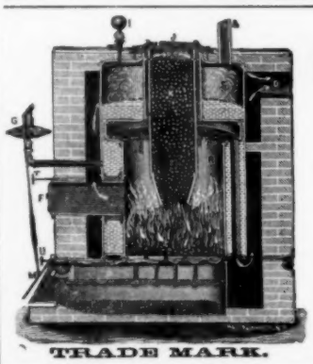

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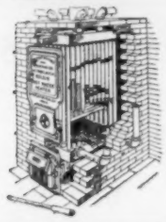

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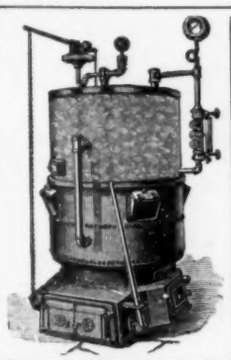

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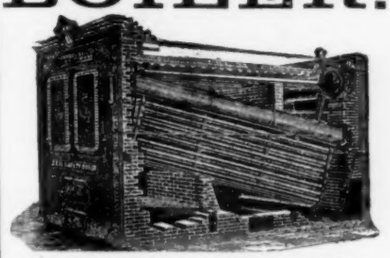

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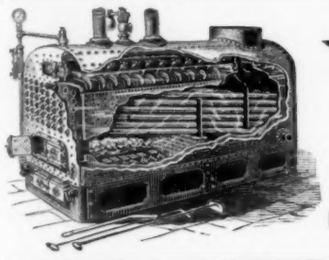

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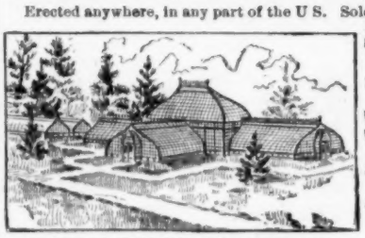

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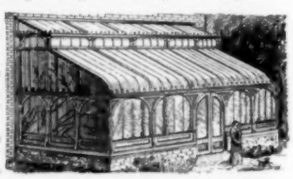

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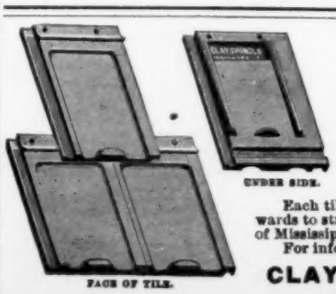

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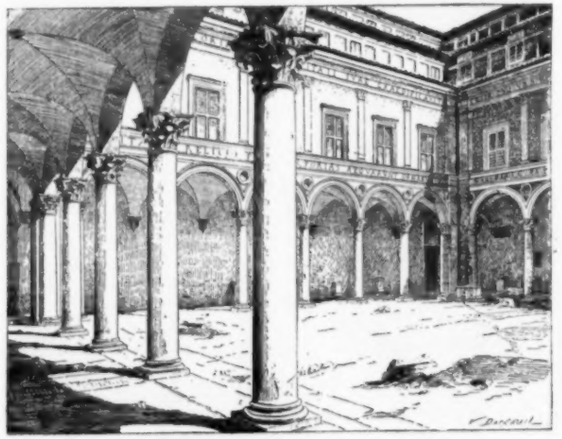

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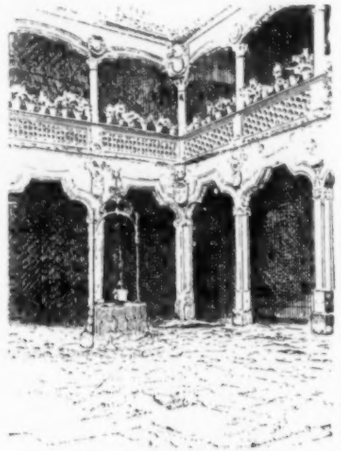

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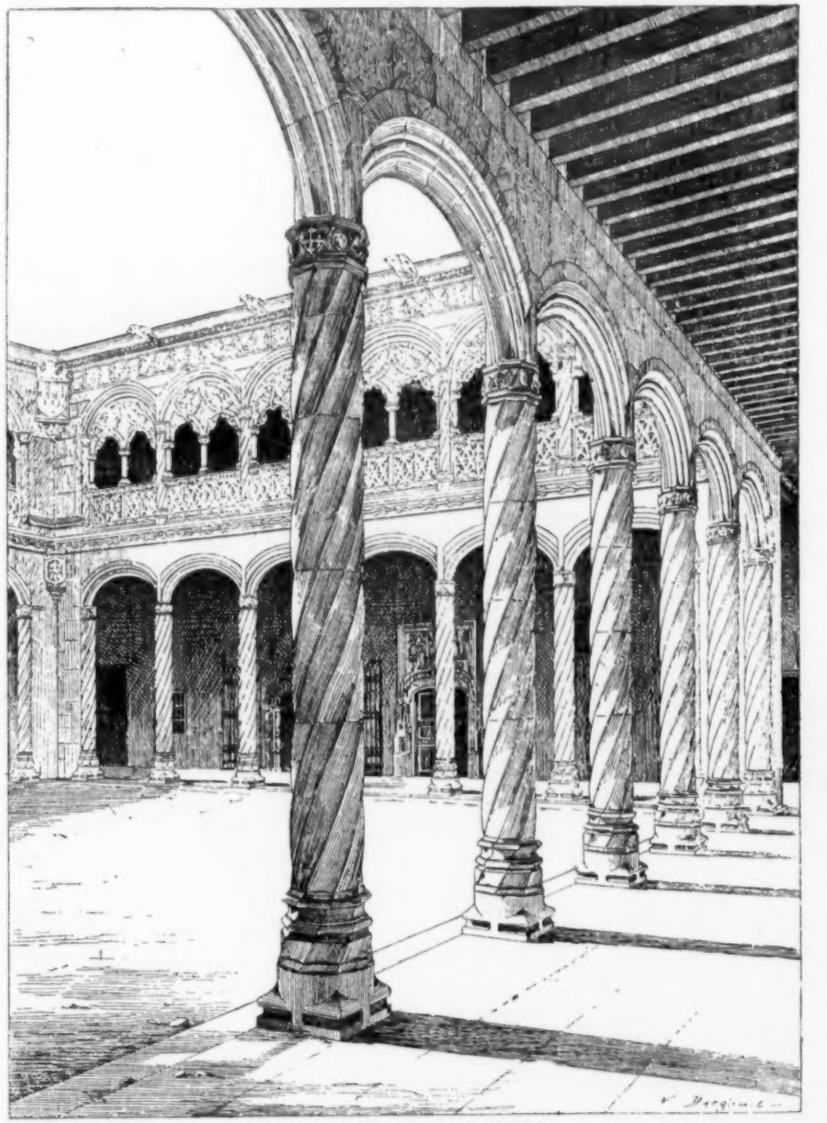

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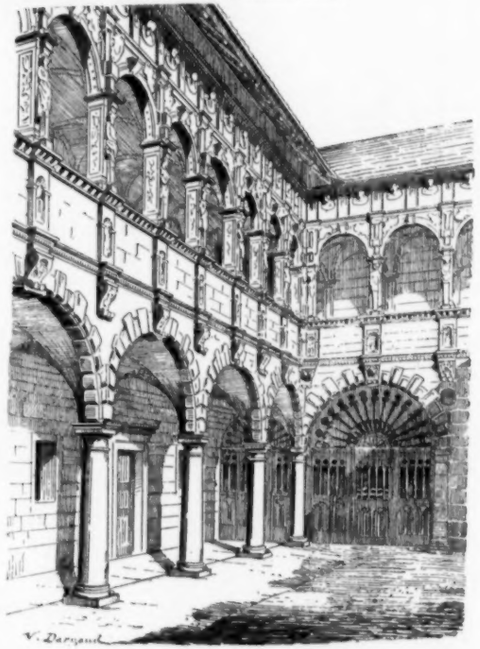

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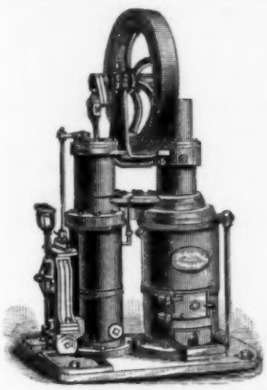

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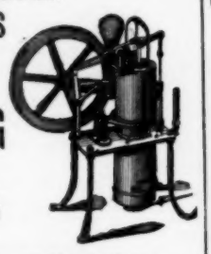

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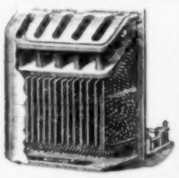

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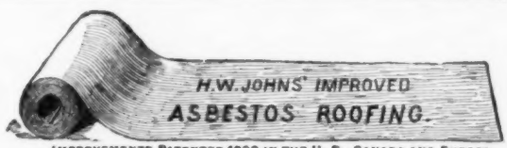

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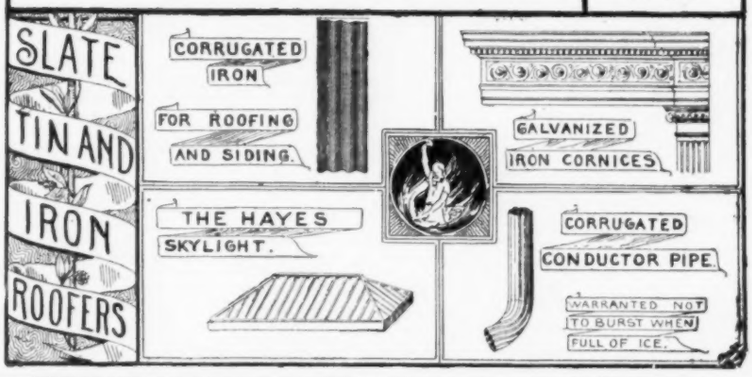

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New Advertisements.

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THE PLAZA (New York, N. Y.), Hotel. Page xxii.
S. CABOT (New York, N. Y.), Creosote Stains. Page xi.
MERCHANT & CO. (Philadelphia, Pa.), Roofing Tin. Page xi.

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476,274. Apparatus for Purifying, Moistening and Attemperating Air.—Louis C. Huck, Chicago, Ill.

476,287. Sash-Balance.—Joseph P. Magney, San Francisco, Cal.

476,289. Safety Device for Elevators.—Edwin S. Matthews, Cincinnati, Ohio.

476,328. Door-Check.—Zuriel Swope, Lancaster, Pa.

476,365. Transom-Lifter.—George A. Colton, Chicago, Ill.

476,373. Sliding-Door Lock and Fixture.—William E. Eastman, Boston, Mass.

476,380. Beam-Compasses.—Henry Haslam, New Britain, Conn.

476,381. Roof.—Samuel R. Hawthorne, Middlebury, Vt.

476,386. Device for Closing Elevator-Gates. Charles N. Judson, Brooklyn, N. Y.

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476,614. Adjustable Bit.—Henry O. Davis, Annisquam, Mass.

476,646. Weather-Strip.—James H. Hull, Lenoxville, Canada.

476,682. Ventilator or Chimney-cowl.—Richard M. Pancoast, Camden, N. J.

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From Antwerp.—Steamer "*Othello*," 722 girders, order. Steamer "*Pennland*," 40 cases polished marble, Wm. A. Atwater; 3,823 casks asphalt, Robert Butcher; 1,000 do. cement, order. Steamer "*Rhynland*," 5,241 cakes asphalt, R. Butcher; 1,600 barrels cement, 73 girders, order.

From Barcelona.—Steamer "*Panama*," 1 case mantels, Davies, Turner & Co.

From Bremen.—Steamer "*Munchen*," 2,520 casks cement, order.

From Cardenas.—Steamer "*Valencia*," 200 sacks asphaltum, Balsells & Co.

From Christiania.—Steamer "*Island*," 6 cases granite, Delhi & Chamberlin.

From Glasgow.—Steamer "*Ethiopia*," 100 casks glazed bricks, Thomas Adam. Steamer "*State of Nebraska*," 38 barrels enamelled bricks, Chas. R. Weeks & Bro.; 24 blocks stone, G. P. Sherwood; 32 do., H. P. Binswanger; 270 cases granite, Austin, Baldwin & Co.

From Hamburg.—Steamer "*Amalfi*," 800 barrels cement, order. Steamer "*Rhætia*," 560 casks cement, E. Thiele. Steamer "*Moravia*," 560 casks cement, E. Thiele; 500 barrels do., order. Ship "*Milton Park*," 3,000 barrels cement, order.

From Hull.—Steamer "*Hindoo*," 405 casks cement, Eisner & Mendelsohn Co.; 8 blocks freestone, order.

From Laguayra.—Steamer "*Venezuela*," 4 logs cedar, Cadenas & Coe.

From Leghorn.—Steamer "*Alexandria*," 1 block marble, Sherman & Flabin; 6 do., Faber & Co.; 11 do., Batterson, See & Eisele; 13 do., order.

From Liverpool.—Steamer "*Servia*," 264 casks bricks, order.

From London.—Steamer "*Spain*," 28 logs wood, J. T. Williams & Sons. Steamer "*Mississippi*," 1,000 casks cement, Brown Bros. & Co.; 902 do., order.

From Oporto.—Brig "*Fortunata*," 3 blocks marble, Bowring & Archibald; 2 do., order.

From Oran.—Bark "*Italia*," 121 blocks marble, A. Roussel.

From Rotterdam.—Steamer "*Rotterdam*," 900 casks cement, E. Thiele; 1,000 do., order. Steamer "*Amsterdam*," 1,800 casks cement, E. Thiele.

From Stettin.—Steamer "*Island*," 850 barrels cement, E. Kauter; 1,000 do., E. Thiele; 500 do., H. Marquardt & Co.

From St. Jago.—Steamer "*Santiago*," 42 logs mahogany, Ronneau, Wightman & Co.

From Swansea.—Steamer "*Gleneagles*," 25,500 Dina's fire-bricks, 12 casks do., order.

From Windsor, N. S.—Schooner "*Gypsum Queen*," 1,693 tons plaster, J. F. Whitney & Co.

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BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[*Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.*]

ALTERATIONS.

Chicago, Ill.—O. F. Fuller, three-st'y addition, 232 Rush St. and 200 Cass St.; cost, $8,000.

The Chicago Club, interior alterations to club-house, Michigan Ave. and Van Buren St.; cost, $30,000.

Ed. Arendt, three-st'y addition, 8945 Sherman Ave.; cost, $3,000.

H. Altman, three-st'y addition, 45 Eighteenth St.; cost, $4,000.

North Chicago Street R. R. Co., one-st'y addition, Racine and Central Aves.; cost, $10,000.

Charles Carlson, three-st'y addition, Garfield Ave. and Larrabee St.; cost, $9,000.

R. Riedel, two and three st'y addition, 1100 South Hoyne St.; cost, $3,000.

Pullman Palace Car Co., one-st'y addition and shops, Pullman St.; cost, $20,000.

Louis Gerlinger, one-st'y addition and alterations, 34-38 North Clark St.; cost, $8,000.

Plyensky Sokel, basement, 821-825 South Ashland Ave.; cost, $8,000.

Decatur, Ill.—Alterations to banking-rooms of Citizen's Bank; cost, about $2,000; architect, E. P. Overmire.

Mattoon, Ill.—Alterations to dwell. of Dr. M. McFall; cost, $2,500; architect, E. P. Overmire.

Alterations to interior of Mattoon National Bank; cost, $1,500; architect, E. P. Overmire.

APARTMENT-HOUSES.

Chicago, Ill.—Joseph Meyer, two-st'y flats, 2704 Emerald Ave.; cost, $3,000.

William Everheu, two-st'y flats, 3116 Portland Ave.; cost, $3,500.

Mary Venard, two-st'y flats, 341 Warren Ave.; cost, $6,000.

Bridget Hoyers, three-st'y flats, 797 Sawyer St.; cost, $5,500.

Andrew G. Klink, three-st'y flats, 1222 Addison St.; cost, $5,000.

(*Continued on page* xv.)

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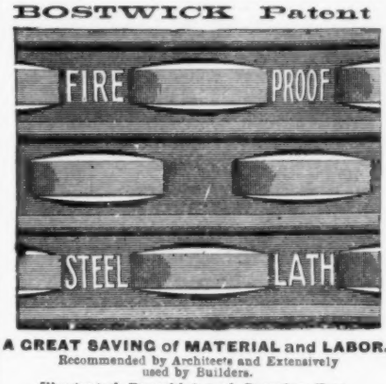

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S. De Swarte, 2 two-st'y flats and barn, 6220 Sangamon St.; cost, $3,000.

S. M. Binder, three-st'y flats, 887 Walnut St.; cost, $6,000.

John Rademucker, three-st'y flats, 943 Hinman St.; cost, $3,500.

A. E. Swanson, 2 three-st'y flats, 3758-3760 Staunton Ave.; cost, $12,000.

John Schmidt, three-st'y flats, 190 Huron St.; cost, $4,000.

H. Woltowski, four-st'y flats, 340 North Franklin St.; cost, $8,000.

Elsein Achtien, two-st'y flats, 5567 Emerald Ave.; cost, $3,000.

Charles Richter, two-st'y flats, 164 Clarence Ave.; cost, $3,800.

Sarah F. Hickey, two-st'y flats, 6620 Drexel Ave.; cost, $3,500.

F. R. Woodruff, 2 three-st'y flats and barn, 4715-4717 Champlain Ave.; cost, $20,000.

M. Loner, 2 three-st'y flats, 6647-6649 Maryland Ave.; cost, $14,000.

John M. Rasch, three-st'y flats, 586 Thirty-second St.; cost, $3,000.

John Maundt, three-st'y flats, 515 Twenty-eighth St.; cost, $4,000.

August Dietzey, three-st'y flats, 2834 Wallace St.; cost, $8,000.

Charles A. Brown, 4 two-st'y flats, 24-30 South Wood St.; cost, $17,000.

Dr. E. A. Lyons, 2 three-st'y flats, 5546 Atlantic St.; cost, $72,000.

Annie Pfeiffer, two-st'y flats, 735 Daun St.; cost, $4,000.

John Sigfried, three-st'y flats, 368 Mohawk St.; cost, $7,000.

John McKary, three-st'y flats, 3130 Portland Ave.; cost, $6,000.

E. D. Murray, 3 three-st'y flats, South Chicago and St. Laurence Aves.; cost, $15,000.

M. A. Hoyorner, two-st'y flats, 5650 Dearborn St.; cost, $3,000.

Andrew Yetterberg, two-st'y flats, 5731 Carpenter St.; cost, $3,000.

William Frink, 4 two-st'y flats, 5711-5715 and 5714 Emerald Ave.; cost, $10,000.

BUILDING INTELLIGENCE.

Theo. Theis, three-st'y flats, 32 Sydney Ct.; cost, $10,000.

John O'Malley, two-st'y flats, 621 Spaulding Ave.; cost, $3,300.

H. L. Stock, two-st'y flats, Reynolds Ave. and Eighty-third St.; cost, $3,000.

J. C. Sherer, four-st'y flats, 5216-5218 Jefferson Ave.; cost, $30,000.

Joseph Nochols, three-st'y flats, 71 Armour St.; cost, $7,000.

Charles Kallborn, three-st'y flats, 112 Schiller St.; cost, $4,500.

H. K. Brooks, 2 two-st'y flats, 6535-6537 Langley Ave.; cost, $4,300.

N. Swanson, two-st'y flats, 212 Baxter St.; cost, $3,500.

Linquist & Carlson, four-st'y flats, 40 Wendell St.; cost, $10,000.

M. Lacey, two-st'y flats, 481 West Huron St.; cost, $35,000.

F. Finnegan, two-st'y flats, 3145 Parnell Ave.; cost, $3,200.

Charles Plotke, three-st'y flats, 172 Burling St.; cost, $5,000.

Alfred Skinner, 6 three-st'y flats, Vincennes and Seventy-third Sts.; cost, $35,000.

Andrew Lewis, three-st'y flats, 760 Shober St.; cost, $3,800.

A. Kerr, two-st'y flats, 726 Hinman Ave.; cost, $4,300.

John Fitzpatrick, two-st'y flats, 5822 Drexel Ave.; cost, $6,500.

Henry Best, two-st'y flats, 1448-1450 Wrightwood Ave.; cost, $9,000.

Alexander Smith, two-st'y flats, Sunnyside and Robey Sts.; cost, $8,000.

Otto Lueck, three-st'y flats, 1000 West Twenty-first St.; cost, $7,500.

Ignatz Mraz, three-st'y flats, 935 Thirty-third St.; cost, $3,800.

E. E. Palmer, two-st'y flats, 820 Walnut St.; cost, $6,000.

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BUILDING INTELLIGENCE.

Ida Riesneker, two-st'y flats, 6512 Drexel Boulevard; cost, $4,000.

Gustaf Johnson, two-st'y flats, 432 McChesney Ave.; cost, $3,300.

James M. McElroy, 2 three-st'y flats, 377-379 Forty-fifth St.; cost, $16,000.

Charles Westergren, three-st'y flats, Ninety-first and Mackinaw Ave.; cost, $3,500.

J. R. Lyman, three-st'y flats, 876 Sixty-third St.; cost, $5,000.

J. R. Lyman, three-st'y flats, 6045 Rhodes Ave.; cost, $5,000.

Paul Vollman, two-st'y flats, 705 School St.; cost, $3,500.

Henry Niemann, three-st'y flats, 1832 Oakdale St.; cost, $10,000.

S. Peterson, four-st'y flats, 237 Townsend St.; cost, $9,000.

Hugh Chittick, two-st'y flats, 1716 Fifty-ninth St.; cost, $4,000.

J. Hundt, three-st'y flats, 528 Garfield Ave.; cost, $7,000.

Kund Erinstad, three-st'y flats, 272 West Huron cost, $6,000.

Joseph Wroblowski, three-st'y flats, 855 North Ashland Ave.; cost, $5,500.

Minneapolis, Minn.—George E. W. Wheeler, three-st'y pressed-brick flats, 1602 Fourth Ave., s, and 33 East Sixteenth St.; cost, $30,000.

CHURCHES.

Atlanta, Ga. — West End Baptist Church, brick and marble church, cost, about $12,000.

Augusta, Ga. — Plans have been prepared by A. W. Todd for a $30,000 brick and stone church for the Springfield Baptist Church.

The Springfield Colored Baptist Church contemplate building a $20,000 church.

Baltimore, Md. — Seventh Baptist Church contemplates building $25,000 church.

Baltimore United Brethren will build stone church, n w cor. Roland and Fifth Aves.

Chicago, Ill. — Emerald Ave. Presbyterian Church, 6701-6703 Emerald Ave.; cost, $9,000.

Mattoon, Ill.—Pressed-brick and brownstone church for Congregational Society; cost, $15,000; architect, E. P. Overmire.

FACTORIES.

Chicago, Ill. — Adolph Leutger, factory, ice-house, etc., 623 Diversey St.; cost, $18,000.

Mayple Bros., six-st'y factory, 55-60 South Canal St.; cost, $25,000.

Penn Glue Company (Limited), two-st'y glue-factory, 4518-4524 Loomis St.; cost, $6,000.

HOUSES.

Baltimore, Md. — B. F. McTyre, 11 three-st'y brick buildings, n w s Linden Ave., n North Ave.

Jacob Saum, 17 two-st'y brick buildings, w s Andre St., beg. s w cor. Benson St.

Thos. F. Locke, 13 two-st'y brick buildings, e s Woodyear St., bet. Riggs Ave. and Winchester St.

E. Austin Jenkins, four-st'y brick building, n w cor. St. Paul and Preston Sts.

Jacob H. Aull, 9 three-st'y brick buildings, s s North Ave., e Calvert St.

James F. Morgan, 13 two-st'y brick buildings, w s Charles St., beg. n w cor. Ostend St.; and 4 two-st'y brick buildings, n s Ostend St., w Charles St.

Mrs. Robert Davis, three-st'y brick building, w s Howard St., bet. Saratoga and Mulberry Sts.

Jno. C. Weems, three-st'y brick building, n s Gorsuch Ave., Homestead.

Boston, Mass. — *Granite St., No.* 161, Ward 24, frame dwell., 26′ x 42′; owner and builder, A. W. Huebener.

Harvard St., near Bernard St., Ward 24, frame dwell., 26.6′ x 36.6′; owner, M. J. Thayer; builder, J. G. Eaton.

Sagamore St., near Belford St., Ward 24, frame dwell., 24′ x 50′; owner, Annie Fryer; builder, F. Fryer.

Wordsworth St., near Pratt St., Ward 25, frame dwell., 24′ x 34′; owner and builder, F. Hammond.

BUILDING INTELLIGENCE.

Stanley St., near Quincy St., Ward 24, 2 three-st'y frame dwells., flat roofs, 39′ x 42.6′; owners, F. T. & W. H. Kenals; builder, A. P. Pinkham.

Park St., near Vinson St., Ward 24, two frame dwells., 25′ x 27.3′ and 30′ x 31.6′; owner, A. L. Jewett; builders, Gould Bros.

Burnett St., near Washington St., Ward 23, 2 three-st'y frame dwells., flat roofs, 21′ x 35′; owner, A. C. Post; builder, C. Lemmler.

Keyes St., near Washington St., Ward 23, three-st'y frame dwell., hip roof, 23′ x 40′; owner, Patrick Fallon; builder, J. J. Flynn.

Church Ave., near West Broadway, No. 355, Ward 13, three-st'y frame dwell., 30′ x 37′; owner, O. J. Duke; builder, S. J. Olpin.

Monadnock St., Nos. 20-24, Ward 20, three frame dwells., 35′ x 35′, 28.3′ x 41.6′ and 27′ x 43′; owners, Crowell, Jones & Wright; builder, J. M. Ellis.

Leyden St., near Breed St., Ward 1, frame dwell., 28.6′ x 36.3′; owner, Alfred Forrest; builder, C. H. Bates.

Silver St., Nos. 98-102, Ward 13, 3 three-st'y frame dwells., flat roofs, 20′ x 34′; owner, A. A. Hyel; builder, P. F. Hanlon.

Princeton St., No. 280, Ward 1, three-st'y frame dwell., flat roof, 21.6′ x 51′; owner, T. E. Lyons; builder, D. D. Fish.

Wordsworth St., cor. Hooper St., Ward 1, frame dwell., 16′ x 24′; owner, John Haynes; builder, James Buchanan.

St. John St., near Centre St., Ward 23, frame dwell., 33′ x 47′; owner, Mrs. J. A. Hill; builder, C. Haley.

Falcon St., near Brooks St., Ward 1, two-st'y frame dwell., flat roof, 22′ x 55′; owners, Urban Associates; builder, C. H. Bates.

Billings St., near Centre St., Ward 23, frame dwell., 20′ x 26′; owner and builder, Andrew Cassidy.

Peter Parley Road, near Washington St., Ward 23, frame dwell., 27′ x 32.6′; owner and builder, T. F. Maguire.

Paul Gore St., near Centre St., Ward 23, three-st'y frame dwell., pitch roof, 26′ x 42′; owner, F. P. Hall; builder, W. Tobin.

Mozart St., near Armstrong St., Ward 23, three-st'y frame dwell., hip roof, 25′ x 42′; owners, M. J. Tagby and T. C. O'Neil; builder, W. Tobin.

Atwood Ave., near Day St., Ward 22, frame dwell., 21′ x 43.6′; owner, Adolph Himmell; builder, D. Johnson.

Weldon St., cor. Unnamed Place, Ward 23, frame dwell., 33′ x 40′; owner, M. V. Perchelle; builder, T. F. Magan.

Park Terrace, near Laurist Ave., Ward 24, frame dwell., 22′ x 31′; owners and builders, Hopey & Barnard.

West Eagle St., near Meridian St., Ward 1, frame dwell., 23.6′ x 50′; owner, G. M. Greyrs; builder, D. D. Foote.

Greenwich St., near Duncan St., Ward 24, three-st'y frame dwell., flat roof, 27′ x 40′; owner, M. Bunningham; builder, M. Ryan.

Hartford Place, near Washington St., Ward 24, 2 three-st'y frame dwells., flat roofs, 22′ x 46′; owner, H. I. Lynn.

Washington St., No. 3077, Ward 23, three-st'y frame dwell. and store, flat roof, 24′ x 83′; owner, W. W. Morse; builder, W. J. Mabee.

Thetford St., near Norfolk St., Ward 24, frame dwell., 24′ x 36′; owner, Arthur Barney; builders, W. H. Haddock & Co.

Lamartine St., near Paul Gore St., Ward 23, 2 three-st'y frame dwells., flat roofs, 22′ x 35′, owner, Mrs. L. P. Shannon; builder, J. H. Pineo.

Hyde Park Ave., opp. Mt. Hope St., Ward 23, frame dwell., 22′ x 57′; owner, H. E. Bryant; builder, John Draper.

Juniper St., near Thornton St., Ward 21, frame dwell., 27.6′ x 42.6′; owner, F. E. Graff; builder, O. R. Lecaine.

Edgewood St., cor. Southwood St., Ward 21, three-st'y frame dwell., hip roof, 28′ x 52′; owner and builder, W. Donaldson.

Sagamore St., near Romsey St., Ward 24, frame dwell., 24′ x 34′; owner, Louis Merz; builders, Howard Bros.

BUILDING INTELLIGENCE.

Juniper St., near Thornton St., Ward 21, frame dwell., 32.6′ x 40′; owner and builder, C. R. Lecaine.

Ingleside St., near Blue Hill Ave., Ward 20, three-st'y frame dwell., flat roof, 24′ x 40′; owner, J. M. O'Hearn; builder, P. McDonald.

Haland St., near Humboldt Ave., Ward 21, frame dwell., 30′ x 55.6′; owner and builder, W. B. Quigley.

Boston St., No. 128, Ward 15, three-st'y frame dwell., flat roof, 23′ x 42′; owner, M. Carter; builders, Howard Bros.

Quincy St., near Columbia St., Ward 20, 6 three-st'y frame dwells., flat roofs, 23′ x 36′; owner and builder, J. V. Devine.

Chelsea St., near Shelby St., Ward 1, three-st'y frame dwell., 22.6′ x 53′; owner, Mary A. Rice; builder, D. D. Fish.

Horace St., near Moore St., Ward 1, frame dwell., 21′ x 48′; owner, H. O'Donnell; builder, J. G. Martin.

Paris St., No. 110, Ward 2, three-st'y frame dwell., 21.6′ x 70′; owner, M. J. Plumphret; builder, J. McDuness.

Centre St., near Wyman St., Ward 23, three-st'y frame dwell., flat roof, 26′ x 70′; owners, Misses E. and M. Ward; builders, Vallie & Douglass.

Falcon St., near Putnam St., Ward 1, three-st'y frame dwell., flat roof, 21′ x 51′; owner and builder, Albino Johnson.

Saratoga St., No. 542, Ward 1, three-st'y frame dwell., flat roof, 21.6′ x 45′; owner, Mary Collins; builder, W. Goodwin.

Commonwealth Ave., Nos. 287-289, Ward 11, three-st'y brick dwell., 55′ x 74.8′; owner, H. M. Sears; builder, C. H. Dodge.

Mattapan St., cor. Tileston Ave., Ward 24, two-st'y frame dwell., gambrel roof, 21.6′ x 29.6′; owner and builder, A. M. Lernard.

Lamartine St., near Roys St., Ward 23, 4 three-st'y frame dwells., 34′ x 30′ and 22′ x 30′; owner, Nathan Chapman; builder, N. W. Foye.

Centre St., near Mozart St., Ward 23, three-st'y frame dwell., hip roof, 25′ x 52′; owner, C. D. Burke; builder, M. J. Curley.

Heath St., near junc. Parker St., Ward 22, three-st'y frame dwell., flat roof, 26.6′ x 34′; owner, G. F. Weaver; builder, W. S. Cole.

Green St., near Chestnut Ave., Ward 23, two frame dwells., 13.1′ x 46.2′; owner, Mrs. P. B. Sturtevant; builder, J. P. Shaw.

(*Continued on page* xix.)

THE following Report by Prof. J. S. Newberry, Professor of Geology and Paleontology in the Columbia College School of Mines, in which he has established a museum of 100,000 specimens of rare value, should be given due weight as being the opinion of the highest living authority upon the subject of which he writes.

Dr. Newberry was born in Windsor, Ct., December 23, 1822. He graduated from Western Reserve College in 1846, and from the Cleveland Medical College in 1848, spent two years in study abroad, and then began the practice of medicine in Cleveland, where he remained until 1855.

During this year he was appointed acting Assistant-Surgeon and Geologist to the party, which under Lieut. Robert S. Williamson, explored the country between San Francisco and the Columbia River. He assisted Lieut. Joseph C. Ives in the exploration of the Colorado River, and was with Capt. John N. Macomb, on the San Juan and Upper Colorado Rivers. In 1859 Prof. Newberry travelled over the plains of Southern Colorado, Utah, Northern Arizona and New Mexico.

In 1866 Prof. Newberry was elected Professor of Geology and Paleontology in the Columbia College School of Mines. In 1869 he was appointed State Geologist of Ohio.

Seven years ago he was appointed paleontologist to the United States Geological Survey, having charge of the investigation of fossils, botany and fishes. Western Reserve College conferred the degree of LL. D. upon him in 1867. In 1888 the Geological Society of London presented him with the Murchison gold medal. He is a member of the Scientific Societies of America and Europe, was named by Congress one of the corporate members of the National Academy of Science, has been President of the American Association for the Advancement of Science, and of the New York Academy of Science since 1867, and is President of the Torrey Botanical Club.

Dr. Newberry is the author of more than two hundred titles, and stands in the front rank of the mining experts of the world.

The Potsdam Sandstone from the quarries of the Potsdam Red Sandstone Company, has been used so extensively by builders of the United States and Canada, and its reputation is so well established, that it might seem that no further word was needed on this subject. It has been under my observation for many years in the public buildings at Ottawa, Canada, and elsewhere, and more particularly in the recently constructed buildings of Columbia College, New York. I had subjected the stone used at Columbia to microscopic observation, chemical analysis and physical tests, at the time when the choice of stone was under consideration by our architect. From these experiments I had learned as I supposed all that it was necessary to know about the stone, viz: that it was a dark red banded sandstone, having a resistance to a crushing force of 17,000 to 18,000 pounds per square inch; that it consisted of silica with a slight ingredient of iron, from which it took its color, and preferable so far as strength, homogeneousness and durability were concerned to any other sandstone known to me. I therefore unhesitatingly recommended its use, and I have never since had occasion to change my mind in regard to its superiority. Still, when I went over the ground and examined the stone in place, and noticed the marked difference in the stone of the different quarries of this company, and especially when I had subjected a new series of specimens to tests for physical strength, I found that I had much to learn in regard to its variety and excellence.

In the first place I discovered that instead of one, there are at least three marked varieties of this stone, possessing different degrees of strength and shades of color, affording to the architect a means of securing a range of effects, when used either singly or in combination. Also, that the stone which we had used at Columbia, though possessing greater strength than any sandstone submitted to trial, was far surpassed in this respect by some of the other varieties attainable, and that the strongest not only exceeded in strength all other varieties of stone tested at the School of Mines, but even resisted the full crushing force of the powerful Emery testing-machine, which we have recently had constructed, and which was supposed to be capable of reducing to powder any building stone submitted to its action. The resistance to crushing force in the specimens tested, varied from 18,401 pounds to the square inch to 42,804, or rather to and beyond the extreme crushing force of our machine; for it was found impossible to overcome with the machine the resistance of two inch cubes of the strongest stone, although the pressure was carried up to 151,000 pounds. Hence we can say that the resistance to crushing force, of the strongest variety, exceeds 42,000 pounds to the square inch, a result greater than we have obtained from tests on granite of any kind, from trap or any other variety of building stone.

The element of beauty is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C.

As I have said, I was surprised to find in the different quarries of this Company so many varieties of color in the stone. In the west quarries, the typical "Red Potsdam," either plain or banded, prevails. On their southern tracts are outcrops of homogeneous and monochrome, chocolate-colored stone in heavy ledges, which will yield blocks of any desired size, while in their quarries on the east side are exposed about fifty feet of rather massive layers, separated by a band of fifteen feet of foundation or bridge stone. The upper and lower bands composing the fifty feet referred to, are mainly of light colored homogeneous stone, to which I was a stranger before visiting the quarries. This is of a reddish cream-color, very uniform in tint and pleasing to the eye. It comes out in layers from two to six feet in thickness and splits with ease and certainty in any direction. With the chocolate-colored stone, to which reference has been made it may be combined with fine effect, one variety being used for trimming to the other, as corner stones, door and window caps, porches, etc., or associated as block stones in plain walls.

This cream-colored variety works with comparative ease, and may be wrought into moulding and ornaments, much more cheaply than the harder varieties, which will be best used when hammer dressed, a style of treatment to which every phase of the stone will lend itself, as it breaks true and even under the hammer.

The different tracts of land controlled by this Company comprise about two hundred acres, distributed for about a mile up and down Racquette river, and selected with judgment so as to embrace the best outcrops of stones found in the district. On all these tracts the Potsdam sandstone is practically the surface rock, being covered only with a layer of greater or less thickness of boulder clay. In quantity, therefore, the quarries are practically inexhaustible, and it is not too much to say that they may be worked for centuries without embarrassment.

J. S. NEWBERRY.

The stone from the quarries of this Company is unexcelled for beauty of color and effect. As the only way that architects can get an idea of the color of the stone is by inspection of a sample, we shall be glad to forward samples and full information to architects who may apply for the same.

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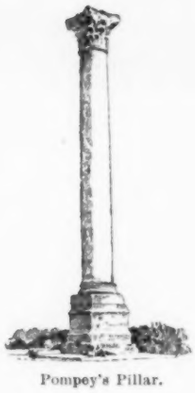
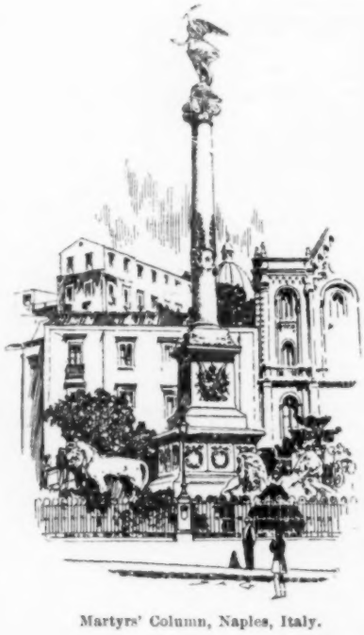
Column of Theodosius.

Persian Brick Pillar.

Column of Probus.



Pompey's Pillar.



Martyrs' Column, Naples, Italy.

Memorial of Franco-Prussian War, Berlin.

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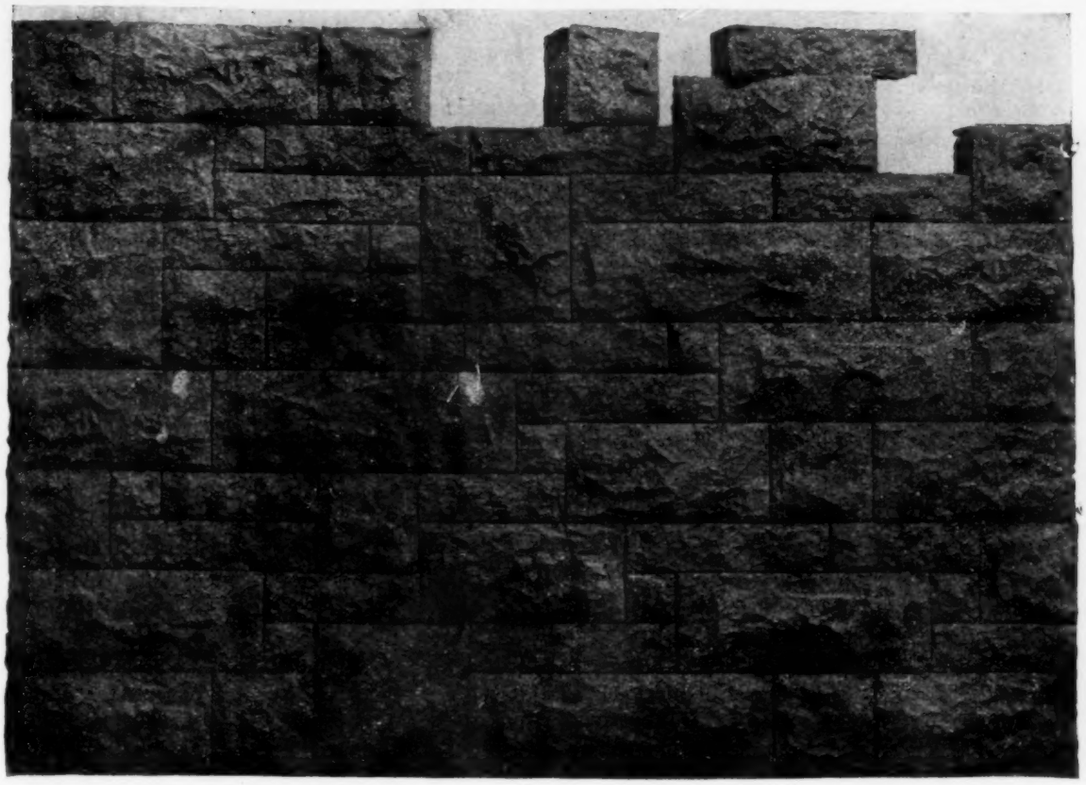
THE BOSTON BRICK ASHLAR.



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BUILDING INTELLIGENCE.

Winship St., No. 20, Ward 25, frame dwell., 27′ x 37′; owner, Philip Flynn; builder, Otis Gately.

Belgrade Ave., near Rexham St., Ward 23, frame dwell., 26′ x 26′; owner and builder, G. W. Havey.

Wordsworth St., near Pope St., Ward 1, two-st'y frame dwell., flat roof, 21′ x 31′; owner, J. H. Oykroyd; builder, J. G. Martin.

West Eighth St., Ward 13, three-st'y frame dwell., flat roof, 22′ x 28.10′; owner, Patrick Burke; builder, P. F. Hanlon.

Brooklyn, N. Y. — *Cornelia St.*, n s, 200′ e Evergreen Ave., 2 three-st'y frame dwells., tin roofs; cost, $3,000 each; owner, Louis G. Lindeman, 1001 Bushwick Ave.

Greene Ave., n s, 126′ e Evergreen Ave., 5 three-st'y frame dwells., tin roofs; cost, $5,000 each; owner and builder, Joseph Frisse, 19 Ten Eyck St.; architect, Th. Engelhardt, 905 Broadway.

Vernon Ave., s s, 154′ w Sumner Ave., three-st'y brick dwell., tin roof; cost, $10,000; owner, N. Schaffner, 254 Vernon Ave.; architect, F. Holmberg, 1169 Broadway.

Rodney St., s s, 100′ e Bedford Ave., 2 four-st'y brick dwells., tin roofs; cost, $20,000; owner, Mr. Mulvihill, on premises; architect, G. H. Madigan, 185 Chauncey St.

Dean St., n s, 118′ e Brooklyn Ave., three-st'y brick dwell., tin roof; cost, $12,000; owner, A. G. Stern, 1262 Dean St.; architect, George P. Chappell, 24 State St., New York.

Lexington Ave., n s, 180′ w Reid Ave., 5 two-st'y brick dwells., tin roofs; cost, $17,500; owner and builder, P. H. Hill, 763 Madison St.; architect, H. Vollweiler, 483 Hart St.

Dean St., n s, 200′ e Brooklyn Ave., 5 three-and-one-half-st'y brick dwells., tin roofs; cost, $60,000; owner, A. G. Stone, 1262 Dean St.; architect, Geo. P. Chappell, 24 State St., New York.

Remsen St., s s, 377′ w Hicks St., three-st'y brick dwell., tin roof; cost, $12,000; owner, W. J. Mathewson, 178 Front St., New York; architect, George P. Chappell, 24 State St., New York.

Elton St., e s, 190′ s Fulton St., two-st'y frame dwell., tin roof; cost, $3,500; owner, Mary Parkhill, Elton St.; architect and builder, H. H. Acker, 177 Elton St.

Cedar St., n s, 400′ e Evergreen Ave., three-st'y frame dwell., tin roof; cost, $4,800; owner, B. Simon, 1252 Myrtle Ave.; architect, Th. Engelhardt, 905 Broadway.

Schaeffer St., s s, 155′ e Evergreen Ave., 5 two-st'y frame dwells., tin roofs; cost, $2,500 each; owner and architect, J. W. Neely, 214 Patchen Ave.

Grove St., n e cor. Wyckoff Ave., 2 three-st'y frame dwells., tin roofs; cost, $8,500; owner, Henry Von Elm, 1464 Second Ave., New York City; architect, Charles Infanger, 126 Van Siclen Ave.

Troutman St., n s, 100′ e Central Ave., 2 three-st'y frame dwells., tin roofs; cost, $4,800 each; owners and builders, Dornbach & Barudio, 918 Flushing Ave.; architect, Th. Engelhardt, 905 Broadway.

Decatur, Ill. — Two-st'y frame dwell. for W. G. Bachman; cost, $3,000; architect, E. P. Overmire.

Mattoon, Ill. — Parsonage for M. E. Church; cost, $3,000; architect, E. P. Overmire.

Frame dwell. for Dr. S. A. Campbell; cost, $5,000; architect, E. P. Overmire.

Minneapolis, Minn. — D. F. Simpson, brick veneer dwell., 135 North Lyndale Ave.; cost, $7,000.

New York, N. Y. — *Southern Boulevard*, 65′ w Briggs Ave., 7 three-st'y brick dwells., tin roofs; cost, $112,000; owners, John Livingston & Son, 130 East Seventy-first St.; architect, George F. Pelham, 1481 Broadway.

Southern Boulevard, s s, 65′ w Briggs Ave., two-st'y brick and frame dwell., peaked shingle roof; cost, $5,500; owner, Ellen Dolan, 166 West One Hundred and Twenty-third St.; architect, Charles C. Churchill, 1334 Washington St.

One Hundred and Thirteenth St., n s, 325′ e Lenox Ave., 7 three-st'y brick dwells., tin roofs; cost, $98,000; owner, Henry Gerken, 1450 Third Ave.; architect, John Hauser, 441 Third Ave.

Eighty-eighth St., n s, 125′ e Columbus Ave., 16 four-st'y dwells., tin roofs; cost, $400,000; owner, John Casey, 59 East Eighty-seventh St.; architects, Neville & Bagge, 250 West One Hundred and Twenty-fifth St.

One Hundred and Fortieth St., s s, 89′ e Willis Ave., three-st'y brick dwell., tin roof; cost, $4,000; owner, Augustus F. Mickel, 298 Willis Ave.; architect, John P. Walther, 239 East One Hundred and Twenty-fifth St.

One Hundred and Forty-third St., n s, 175′ e Amsterdam Ave., 2 three-st'y brick dwells., tin roofs; cost, $28,000; owner, Louis P. Buck, 371 Mott Ave.; architects, Thom & Wilson, 1267 Broadway.

Eighty-ninth St., n s, 225′ e Columbus Ave., 9 four-st'y brick dwells., tin roofs; cost, $225,000; owner, Francis Crawford, 114 West Seventy-second St.; architect, Henry Anderson, 1180 Broadway.

West Fifty-third St., No. 444, three-st'y brick dwell., tin roof; cost, $9,000; owners, Sior & Frensch, 447 West Fifty-second St.; architect, Louis F. Heinecke, 62 Bowery.

Sedgwick Ave., 794½′, 879′ and 965′ n junction with Riverside Terrace, 3 three-st'y brick and frame dwells., peaked, tin and slate roofs; cost, $25,500; owner, Mary A. Walker, Westfield Richmond Co.; architect, T. H. Dodge, Morris Heights.

Seventy-seventh St., n s, 350′ w Ninth Ave., 8 three-st'y brick dwells., tin roofs; cost, $200,000; owner, Frederick Aldhouse, 513 Lenox Ave.; architect, John C. Burne, 101 West Forty-second St.

Stanton St., No. 251, two-st'y brick dwell., tin roof; cost, $4,000; owner, Sam Winkler, 101 Sheriff St.; architect, Fred Ebeling, 3 First Ave.

East Thirty-sixth St., No. 247, three-st'y brick dwell., tin roof; cost, $8,000; owner, Mrs. Hannah Humes, 144 East Thirty-sixth St.; architect, Charles Rentz, 153 Fourth Ave.

West End Ave., w s, 25′ s Ninety-seventh St., 3 three-st'y brick dwells., tin roofs; cost, $45,000; owner, Joseph A. Vandewater, 471 West One Hundred and Forty-fifth St.; architects, Siebell & Miller, 258 Broadway.

Eighty-eighth St., n s, 125′ e Columbus Ave., 16 four-st'y brick dwells., tin roofs; cost, $400,000; owner, John Casey, 59 East Eighty-seventh St.; architects, Neville & Bagge, 250 West One Hundred and Twenty-fifth St.

Philadelphia, Pa. — *Christian St.*, n s, bet. Twenty-third and Twenty-fourth Sts., 13 three-st'y brick dwells.; owner, estate of Charles Lafferty, 1943 Christian St.

Lilly Ave., w s, n Fitzwater St., three-st'y brick dwells.; builders, Duross & Welsh, 758 South Broad St.

Cross St., n s, bet. Twenty-third and Twenty-fourth Sts., 25 two-st'y brick and stone dwells.; owner, J. M. B. Morrow, 2525 South Broad St.

Carlisle St., n e cor. Clearfield St., 3 two-st'y brick dwells.; builders, Stewart Bros., 2527 North Fifth St.

Second St., e s, n Laurel St., 3 three-st'y brick dwells.; owner and builder, James H. Young, 1902 South College Ave.

Ann St., n s, e Belgrade St., 2 two-st'y brick dwells.; owner, P. Boyce, 1725 William St.

Turner St., w s, n Tioga St., 2 two-st'y brick dwells.; builder, G. P. Bauman, 3533 North Sixth St.

Haworth St., w s, s Frankford Ave., 2 two-st'y brick dwells.; owner, E. H. Allen, 1618 Sellers St.

Venango St., s s, bet. Eighth and Ninth Sts., 2 two-st'y brick dwells.; builders, James H. Dorff, Venango St., s e cor. Ninth St.

Bridge St., e s, n James St., 2 two-st'y brick dwells.; builders, Kolivar Bros., 2737 Ash St.

South Forty-first St., No. 122, three-st'y brick and stone dwell.; builder, J. W. Leamy, 523 South Forty-second St.

OFFICE-BUILDINGS.

Mattoon, Ill. — Three-st'y store and office building, brick and brownstone; cost, $25,000; architect, E. P. Overmire.

RAILROAD BUILDINGS.

Minneapolis, Minn. — Great Northern R. R. Co., brick and stone passenger depot and baggage rooms, Fourth Ave., n, and Washington Ave.; cost, $25,000.

SCHOOL-HOUSES.

Mattoon, Ill. — Four-room brick school-building; cost, $8,000; architect, E. P. Overmire.

STABLES.

Decatur, Ill. — Frame stable for J. A. Dawson; cost, $1,000; architect, E. P. Overmire.

Frame stable for S. D. May; cost, $1,200; architect, E. P. Overmire.

MISCELLANEOUS.

Chicago, Ill. — Hansell Elcock Foundry Co., two-st'y shop and one-st'y boiler-house, 2355-2365 Burton St.; cost, $3,000.

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PROPOSALS.

GRANITE-WORK.

[At New York, N. Y.]

NEW YORK, July 7, 1892.

Sealed proposals for a portion of the structural granite work of the tomb of General Grant will be opened in the presence of the estimators **at 12 M.** at the office of the Grant Monument Association, 15 Broad St., New York City, **August 22, 1892.**

Plans can be seen at the office of the Architect, John H. Duncan, 21 West Twenty-fourth St., New York City. 864

DEPOT.

[At St. Louis, Mo.]

ST. LOUIS, July 5, 1892.

Sealed proposals will be received at the office of the undersigned **until 10 A. M.** on **July 30, 1892,** for all the labor and materials requisite to erect complete the endhouse of the Union Depot, excepting the foundations, heating and plumbing, in accordance with the drawings and specifications, copies of which may be seen at the office of Theo. C. Link, Architect, Equitable Building. 865

CARPENTRY-WORK.

[At Boston, Mass.]

OFFICE OF CHARLES BRIGHAM, ARCHITECT, 27 MT. VERNON STREET, BOSTON, MASS. BOSTON, July 1, 1892.

Sealed proposals will be received at this office **until 10 A. M. Monday, July 18, 1892,** for materials and labor required in the carpentry-work for the Massachusetts State-House Extension.

Plans and specifications for the same may be seen at the office of the architect on and after Tuesday, July 5, 1892.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

All bids to be plainly marked "Proposals for the Carpentry-Work for the Massachusetts State-House Extension, Boston, Mass."

JOHN D. LONG, BENJ. D. WHITCOMB, WM. ENDICOTT, JR., } State-House Construction Commission.

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Treasury Department, Office Supervising Architect, Washington, D. C., July 8, 1892. Sealed proposals will be received at this office until two o'clock P. M. on the 3d day of August, 1892, and opened immediately thereafter, for all the labor and materials required for the stone and brick work, roof covering, approaches, etc., for the superstructure, and also for the cast-iron columns, steel floor, ceiling and roof construction, etc., of the United States Court-house, Post-office, etc., building at Wilmington, Del., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Wilmington, Del. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. Bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the the Stone and Brick Work, Roof Covering, Approaches, etc., or for Cast-iron Columns, Steel Floor, Ceiling and Roof Construction, etc., of the United States Court-house, Post-office, etc., building at Wilmington, Del.," as the case may be, and addressed to W. J. EDBROOKE, Supervising Architect. 865

Treasury Department, Office Supervising Architect, Washington, D. C., June 29, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 27th day of July, 1892, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except plumbing and heating apparatus) of the United States Post-office building at Ashland, Wis., in strict accordance with drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Ashland, Wis. Each proposal must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposals for the Erection and Completion (except Plumbing and Heating Apparatus) of the United States Post-office building at Ashland, Wis.," and addressed to W. J. EDBROOKE, Supervising Architect. 864

Treasury Department, Office Supervising Architect, Washington, D. C., July 2, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 2d day of August, 1892, and opened immediately thereafter for all the labor and materials required for the excavation, foundations, cut-stone and brick work, iron and wood floor and roof construction, roof covering, approaches, etc., for the United States Post-office building at Fort Dodge, Iowa, in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Fort Dodge, Iowa. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Excavation, Foundations, Cut-stone and Brickwork, Iron and Wood Floor and Roof Construction, etc., for the United States Post-Office Building at Fort Dodge, Iowa," and addressed to W. J. EDBROOKE, Supervising Architect. 864

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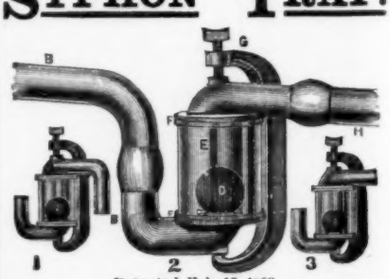

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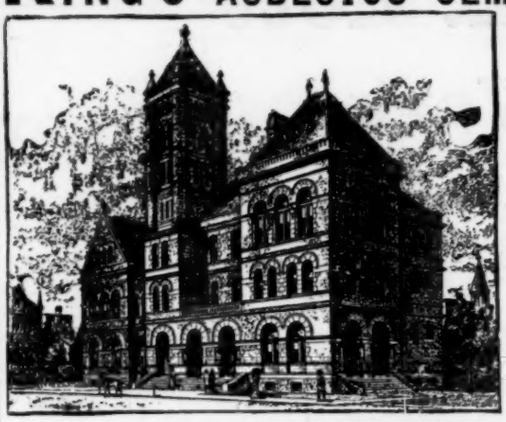

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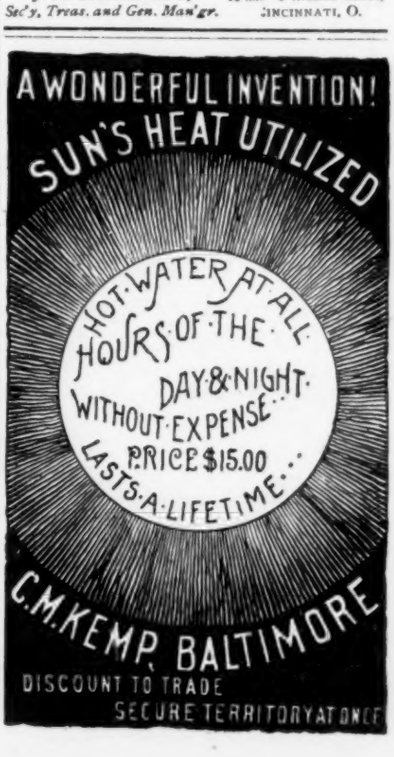

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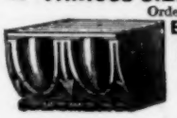
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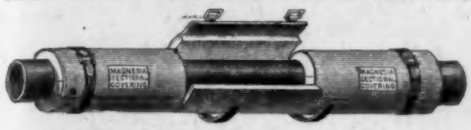

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Paper.	Number of subjects contributed.	Number of contributing architects.	Towns in which contributors were established.	States in which contributors were established.
No. I. . . .	214	109	28	16
No. II. . .	137	78	21	15
No. III. . .	118	56	16	11
Am. Architect.	267	152	47	24

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Subjects.	Per cent of total number of subjects.	Different architects contributing.	Per cent of total number contributing architects.	Towns.
161	.752	75	.688	7
46	.335	24	.307	2
70	.593	22	.392	1
73	.273	39	.256	3

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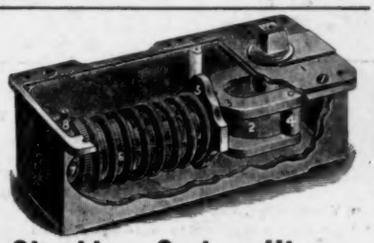

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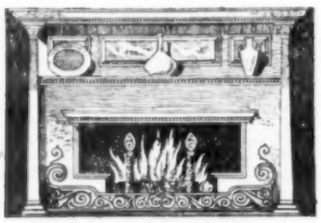

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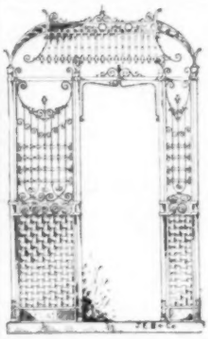

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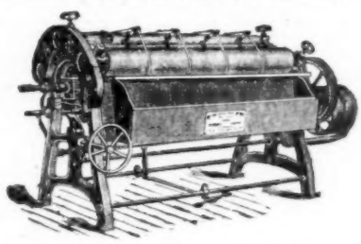

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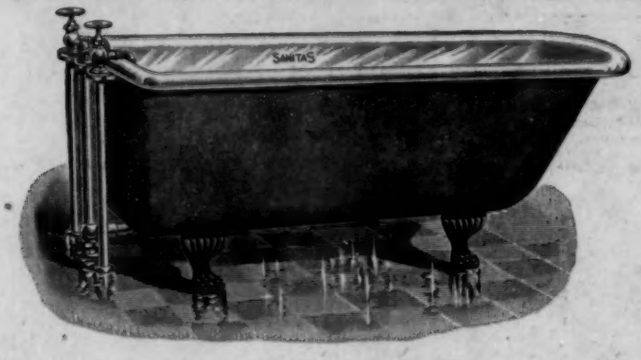

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" 3d quality	18 00 @ 22 00	35 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	13 50 @ 25 00	*Not sold.*	16 00 @ 20 00
Hemlock	ea 13½ @ 14	13 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	25 00 @ 35 00	29 00 @ 37 00	14 00 @ 29 00
Cypress	@	31 00 @ 40 00	@	@ 35 00
Clapboards:				
Pine	@	38 00 @ 60 00	10 00 @ 22 00	14 00 @ 25 00
Spruce	@	23 00 @ 35 00	*Not sold.*	*Not sold.*
Framing Timber:				
Pine			12 00 @ 15 00	25 00 @ 37 30
Spruce	14 00 @ 18 00	15 00 @ 18 00	*Not sold.*	16 00 @ 18 00
Hemlock	12 00 @ 16 00	13 00 @ 15 00	10 00 @ 13 00	13 00 @ 17 00
Yellow pine	18 00 @ 21 00	24 00 @ 35 00		22 00 @ 28 00
Laths:				
Pine	@	2 25 @ 2 35	2 10 @ 2 25	2 75 @ 3 00
Spruce	2 85 @ 3 00	2 35 @ 2 50	*Not sold.*	2 30 @ 3 00
Shingles:				
Pine, shaved ₱ M.	5 00 @ 6 00	@	*Not sold.*	
Pine, sawed "	4 00 @ 5 00	@ 4 50	2 20 @ 3 00	
Spruce, sawed "	1 50 @ 2 00	1 50 @ 00	*Not sold.*	
Redwood ₱ 125	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	30" $35 @ 40
Cedar split ₱ M.	@	@	*Not sold.*	24" 8 @ 21
Cedar sawed "	@	2 00 @ 4 00	2 00 @ 2 35	20" 35 @ 14
Cypress. Split...7 x 24. "	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
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Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 18 00	9 00 @ 13 00
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Chestnut posts	@	25 @ 50	*Not sold.*	20 @ 30
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Ash *[Kiln-dried.)*	@ 55 00	45 00 @ 60 00	30 00 @ 35 00	30 00 @ 40 00
Cherry	80 00 @120 00	90 00 @ 120 00	80 00 @ 110 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	50 00 @ 60 00	70 00 @ 80 00
Hard-pine floors (rift)		45 00 @ 50 00		
Mahogany, Baywood (Mexican)	@180 00	150 00 @ 160 00	150 00 @ 200 00	150 00 @ 250 00
" St. Domingo	@350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
Oak, red	@ 70 00	@ 50 00	32 00 @ 40 00	45 00 @ 55 00
" white	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	35 00 @ 50 00	57 50 @ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	35 00 @ 50 00	@ 65 00
Redwood	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
Rosewood ₱ lb.	@ 6		@ 7	
Spruce floors (clear, kiln-dried)		32 00 @ 35 00		
Walnut, black	125 00 @150 00	85 00 @ 120 00	55 00 @ 100 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	40 00 @ 45 00	18 00 @ 40 00	25 00 @ 40 00
Yellow pine ₱ M.	@ 45 00	40 00 @ 42 00	29 00 @ 40 00	@ 42 00

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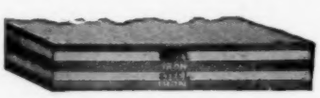

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Common: *Cargo afloat.*				
Pale	1 75 @ 2 00	Eastern 9 00 @ 10 00	Building Brick @ 6 50	Sq. Hard @ 9 00
Jersey	4 00 @ 4 75			" @ 7 00
Long Island	@	Bay State Hard 7 00 @ 8 00		Salmon @ 5 00
Up River	4 00 @ 4 75	Domestic Com. 9 50 @ 10 00	Indiana Pressed 14 00 @ 20 00	Sq. " @ 9 00
Haverstraw Bay 2d	4 75 @ 5 00	Domestic Face 20 00 @ 22 00	St. Louis Fronts @ 27 00	Light Stretchers @ 10 00
" 1st	5 00 @ 5 25	Philadelphia 40 00 @ 45 00		Medium " @ 12 00
Hollow	@ 13 00	Phila. mould 50 00 @ 80 00		Red " @ 13 00
Fronts:			15 00 @ 27 00	Dark " @ 13 00
Croton, Brown	@ 13 00		65 00 @ 350 00	Pressed @ 20 00
" dark	@ 14 00		@ 55 00	18 00 @ 20 00
" red	@ 14 00	Anderson 14 00 @ 32 00	45 00 @ 50 00	Best Paving @ 14 00
Chicago pressed (Anderson)			45 00 @	Second " @ 13 00
" Moulded			25 00 @	Third " @ 12 00
Baltimore	37 00 @ 41 00		60 00 @ 100 00	
Philadelphia	23 00 @ 24 00		30 @	
Trenton	22 00 @ 23 00		35 @	
Milwaukee			55 00 @ 65 00	
Moulded:				
Glens Falls Red Pressed	@ 37 00		@ 100 00	Dom. @ 65
" " Buff "	@ 30 00		@ 120 00	@ 85
" " Moulded Red & Buff	45 00 @ 70 00			
Enamelled: *Imp.*				
Enamelled (edge)	85 00 @ 100 00			
Enamelled (edge and end)	90 00 @ 115 00			
CEMENT, LIME, etc.—(₱ *cask.*)				
Rosendale Cement	85 @ 95	1 20 @ 1 40	*Not sold.*	1 30 @ 1 50
Louisville "		Brooks, S. & Co.	1 05 @ 1 30	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	*Not sold.*	2 60 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs)	2 50 @ 3 00	2 60 @ 3 06	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	Josson
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	2 60 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover)	2 50 @ 3 00		*Not sold.*	2 75 @ 2 85
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	2 70 @ 3 00
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30
Chicago Lime in bulk		St. John 1 00	55 @	White Mash
Wisconsin Lime			60 @	1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	1 00 @ 1 00
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ bush	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		35 @ 60	75 @ 1 50
Serpentine	@	19 50 per ton	@ 1 00	₱ Perch @ 4 5

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Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in.th. 10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	} 55 @ 1 00
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	325 @ 4 00
" " Chapmans	@	@	7 30 @ 8 00	00 @ 4 65
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am ...℔ M.	@	@	*Not Sold.*	@ 25 00
N. Peach Bottom, warranted unfading			@	6 00 @ 6 75
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 34
Oil, linseed, (raw) (℔ gal.)	55 @ 62	40 @ 41	57 @ 60	@ 60
" " boiled. (℔ gal.)	58 @ 65	43 @ 44	60 @ 63	@ 63
Turpentine (℔ gal.)	36 @ 37	@ 35	51 @ 51	@ 44
Varnish, coach. (℔ gal.)	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting } dry	75 @ 1 00	1 @ 1½	1 @ 1½	¾ @ 1
Paris white, (Eng.) } dry	1 30 @ 2 00	2 @ 3	1½ @ 2	1¼ @ 2
Litharge, Am	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 00 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask
Butts: 4" x 4" ...(℔ doz. pairs.)				2 90 (all kinds.)
Plain	@ 1 00	@ 1 20	@ 90	@ 90
Japanned	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Acorn, Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 75
Ball Tip, Boston Finish ...(℔ pair.)	@ 65	@ 50	*Not Sold.*	48 @ 50
Bronze metal	@ 1 90	plain 1 65	2 00 @ 3 25	@ 1 25
Brass (for cupboards.)	@ 10	@ 10	@ 12	@ 1 00
Ebony	@	@	@	@ 35
Apple wood	@	@	@	37 @ 1 00
Knobs: (℔ *set.*)				
Mineral, best	@ 8	@ 8	8 @ 10	@ 08
Lava	@ 50	@ 75	65 @ 80	*Not Sold.*
Hemacite	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Porcelain	@ 30	@ 10	25 @ 30	@ 25
Glass, solid	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, silvered	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:	@	@	13 @ 16	13½ @ 16
Sheet Lead	@	@ 7½	@ 7	@ 6½
Lead Pipe	@	@ 6½	@ 6½	6 @ 6
Iron:				
I-Beams, up to and including 36 ft.	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ¼, ½, ¾ c. advance	@	@	@	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 4-10	3 20 @ 3 70	@ 2 8-10
			3 20 @ 3 70	

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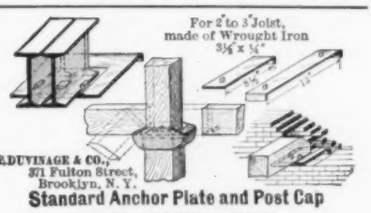

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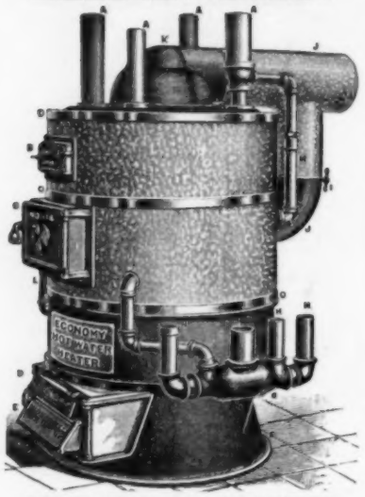

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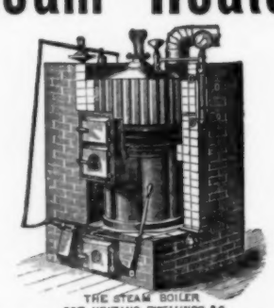

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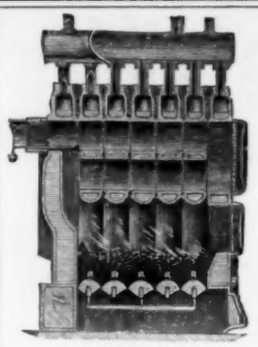

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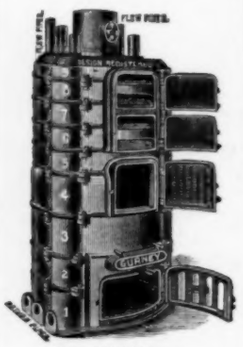

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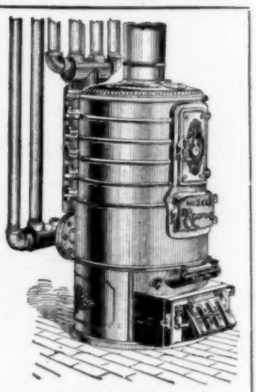

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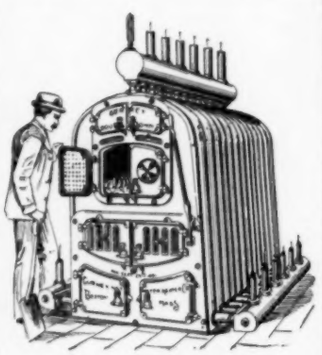

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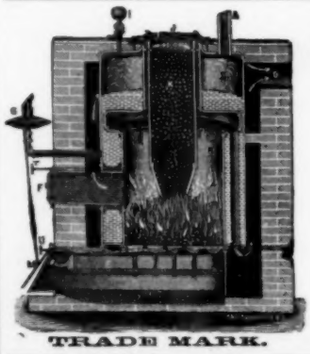

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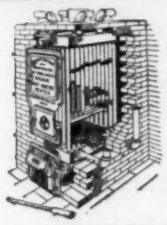

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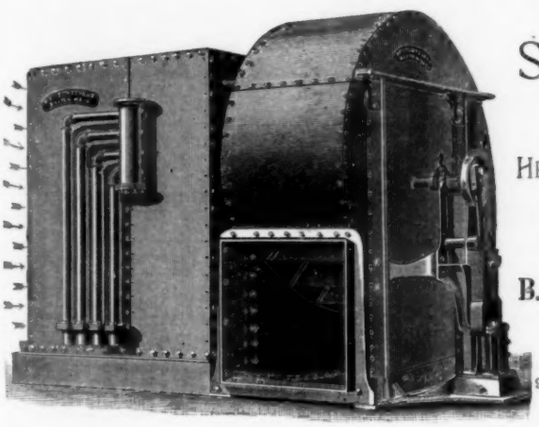

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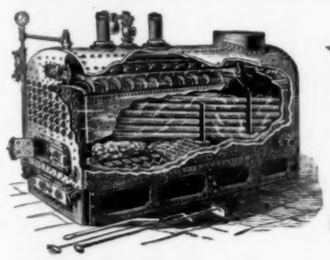

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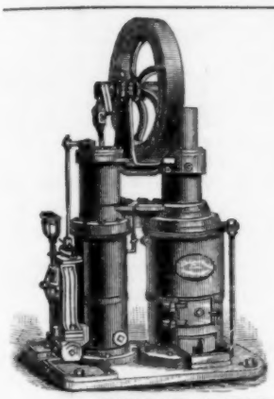

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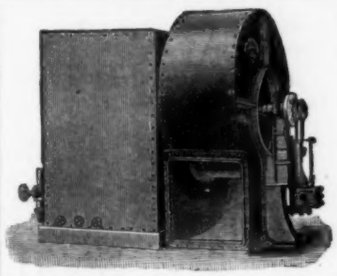

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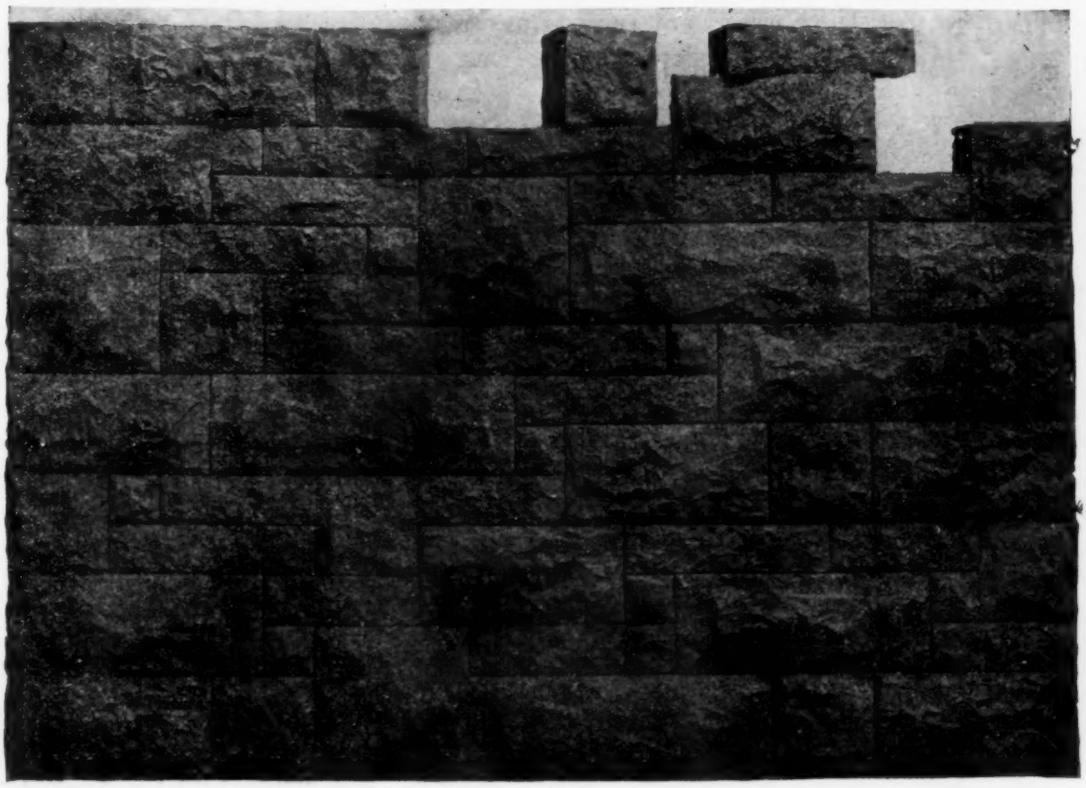

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No special flues or vents necessary.
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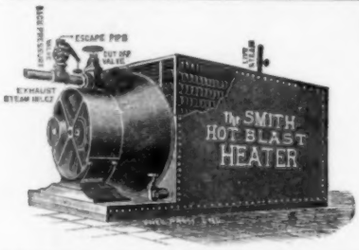

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Will not leak.
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Extra heavy tested to 300 lbs.
Made of two seamless drawn copper Shells.
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Send for circular giving instructions for prevention of accident.

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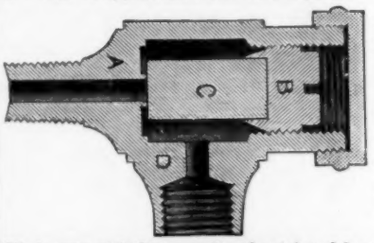

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NO. 159.—THE RESULTS OF T. W. F. CONTINUED.

We said last week that Transparent Wood Finish was born of a desire to furnish a thoroughly reliable varnish for house uses, to those who were willing to pay for it.

The price was fixed at $2.50 a gallon—not so high as it should have been but as high as we had the courage to make it—and we began the task of introducing it.

It was slow work and not very encouraging.

The architect knew nothing about it—the house-painter was directly against it, for the price was double.

The support of the architects was speedily secured—so intelligent and interested a class of men needed only to understand the facts—and we suppose that on a majority of the important buildings erected in recent years, Transparent Wood Finish has been specified.

Unfortunately it is not always used where it is specified; there are still a large number of painters who do not see that their interest is larger than the extra dollar-and-a-quarter a gallon.

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The amount of skylight work we are doing for the World's Fair (over 600,000 sq. feet) has required us to so increase our facilities for such work that we have cheapened the cost materially, and we will be particularly pleased to quote prices for large or small skylight work, "knocked down" or put together, as preferred.

Special Attention . . . .
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Fully Guaranteed.

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Sidewalk —AND— VAULT LIGHTS.

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coloring makes attractive houses. We are always ready to suggest appropriate colors on receipt of photograph, blue print or sketch.

Or send you a pocket case of color-cards that you may make your own selection of "TOWN AND COUNTRY" Paints.

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Home Study in Architecture. For Particulars address C. POWELL KARR, *Architect*. t.f.

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Drawings rendered in line or color with reasonable despatch.

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Awarded the Grand Prize at the late Paris Exposition.

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The American Architect and Building News

IS PUBLISHED EVERY SATURDAY BY

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For the American Architect and Building News Co.

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Advertising rates: For "wants" and "proposals," 15 cents per line, [8 words to the line] each insertion. 50 cents the least charge. Other rates on application.

New Advertisements.

THE CAPITOL HEATER CO. (Detroit, Mich.), Heating Apparatus. Page vi.
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J. W. BOUGHTON (Philadelphia, Pa.), Parquetry. Page 4, Cover.
GROVE & CO. (Washington, D. C.), Agreement for Building. Page xiv.

PERSPECTIVE DRAWING.

The *American Architect* Drawing-Office will undertake the preparation of perspective drawings in line or color from scale drawings, or will render drawings already in outline. Address the editors.

WANTED.

CATALOGUES. — Samples and catalogues wanted by J. A. Tempest, Architect, Houston, Texas. 865

WANTED.

DRAUGHTSMAN. — Wanted, in a large western city, a good architectural draughtsman, who has had experience in designing and making working drawings for large buildings. Salary $90 per month. Address, giving age, experience, qualifications, "Corporation," care of *American Architect and Building News.* 866

WANTED.

POSITION. — A practical draughtsman and architect wishes employment continuously. Do not hesitate to correspond with me at any time you have large work. Address Morgan Renner, 142 West 70th Street, New York City. 867

PERSPECTIVES.

ARCHITECTURAL PERSPECTIVE drawings and efficient temporary assistance by a staff of first-class designers, draughtsmen and colorists. Address Secretary, Guild of Artists, Rooms 39 and 40, 430 Walnut Street, Philadelphia, Pa. 875

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FRANCIS H. CRUESS, architectural artist, is prepared to receive from architects their designs to render in pen-and-ink, monochrome or water-colors. Address 206 North Second Street, Harrisburg, Pa. t.f.

TO ARCHITECTS.

$10 HIGH CLASS PERSPECTIVES in water colors, sepia or ink. Artistic views of architect's designs lined and rendered from $10. Address "Artist," 3338 Smedley St., Philadelphia, Pa.

BUILDING PATENTS.

[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

478,105. Wooden Pipe. — Archie McL. Hawks, Tacoma, Wash.
478,136. Brick or Tile Machine Die. — George C. Skinner, Troy, Ohio.
478,146. Bolt for Prison Doors. — Frank O. Weary and George W. Kramer, Akron, Ohio.
478,160. Sash-Balance. — Samuel Jenkinson, Rochester, N. Y.
478,169. Safety Attachment for Elevators. — Martin J. O'Donnell, William C. Smith and Henry Bound, Cleveland, Ohio.
478,171. Roofing-Tile. — Joseph Rapp, New Philadelphia, Ohio.
478,177. Folding Window-Balcony. — Claude Thomson, Chicago, Ill.
478,208. Sectional Steam-Boiler. — George P. Steel, Philadelphia, Pa.
478,234. Sash-Cord Fastener. — William Hutchins, Melbourne, Victoria.
478,239. Lock. — Charles Richtmann, Newark, N. J.
478,246. Automatic Door-Closer. — John B. Stoner, New York, N. Y.
478,248. Bit-Stock. — Oliver R. Alden, Nicholson, Pa.
478,262. Blind-Stop. — William E. McLachlan, New York, N. Y.
478,263. Elevator. — John R. Moss, Webster, Pa.
478,267. Brick or Tile Machine. — John C. Titus, New Bremen, Ohio.
478,272. Sash-Fastener. — Thomas B. Bomar, Wolfe City, Texas.
478,297. Device for Operating Hatchway-Doors. — Seth G. Tufts, Mainville, Ohio.
478,306. Shingle-Gauge. — John W. Bacon, Enderley, Canada.
478,309. Spirit-Level. — Thomas L. Burchinall, Morgantown, W. Va.
478,318. Fireproof Partition or Ceiling. — Carl F. W. Doehring, New York, N. Y.
478,319. Furnace. — Ellis F. Edgar, Woodbridge, N. J.
478,354-355. Door-Spring. — Albert A. Page, New Haven, Conn.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING JULY 15, 1892.

From Antwerp. — Ship "*St. John*," 5,640 barrels cement, J. & W. Seligman & Co. Bark "*Birma*," 2,000 barrels cement, Bank of British North America. Steamer "*Westernland*," 1,250 barrels cement, G. A. Dreysters; 4,300 do., order.

From Bremen. — Ship "*Fritz*," a lot of asphaltum, 7,330 cakes do., Sicilian Asphalt Paving Co. Steamer "*Kaiser Wilhelm II*," 1,960 casks Portland cement, order.

From Dundee. — Steamer "*Principia*," 16 cases polished granite, John J. O'Neil.

From Frontera. — Brig "*Eldorado*," 124 logs mahogany, J. Rayner.

From Glasgow. — Steamer "*Furnessia*," 13 cases granite, Brown & Macgowan. Steamer "*Siberian*," 10,000 fire bricks, Hammill & Gillespie; 2 cases granite, John Welch; 200 do., Austin Baldwin & Co.; 29 blocks stone, G. P. Sherwood; 34 do., H. J. Binswanger.

From Hamburg. — Steamer "*Dania*," 1,000 barrels cement, order. Bark "*Annie Johnson*," 3,300 barrels cement, order.

From Havana. — Steamer "*Espana*," 300 bags asphaltum, order.

LAUNDRY "ANKD" MACHINERY.

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ESTABLISHED 1861. Send for Catalogue. OAKLEY & KEATING, 40 Cortlandt St., New York.

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ARCHITECTURAL WORKS,
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The publishers of the *American Architect* would like to purchase a few copies of

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of the Imperial edition. Double price will be paid for copies in good condition.

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Regular Edition 696, 698, 700, 701, 703, 712, 715, 717, 720, 723.

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BUILDING PATENTS.

From Liverpool. — Steamer "*Tauric*," 281 casks bricks, 67 packages do., Meeker & Carter; 103 casks bricks, 1 box do., order. Steamer "*Nevada*," 37 cases granite, Jones Bros.

From London. — Steamer "*Ebro*," 50 casks cement, C. S. Stevens; 850 do., order. Steamer "*America*," 30 blocks marble, S. Klaber & Co.; 600 casks cement, 394 logs wood, 500 casks cement, order. Ship "*Hermann*," 5,000 casks cement, Marcial & Co.

From Marseilles. — Steamer "*Neustria*," 1 block marble, T. Ebaves; 3 do., Great Eastern Line; 2 do., R. C. Fisher & Co.; 9 do., A. Roussel.

From Newcastle-on-Tyne. — Steamer "*Ebro*," 2,280 casks cement, Bowring & Archibald; 50 blocks freestone, H. P. Binswanger.

From Port Spain. — Steamer "*Arecuna*," 1,300 tons asphaltum, order.

From Rotterdam. — Steamer "*Werkendam*," 1,060 casks cement, E. Thiele.

From Santa Ana. — Brig "*Eldorado*," 165 logs mahogany, J. Rayner.

From South Pacific Ports. — Steamer "*Colombia*," 3 cases plaster, W. R. Grace & Co.

From Stettin. — Ship "*Thommsen*," 2,000 barrels cement, order.

From Vera Cruz. — Steamer "*Cienfuegos*," 426 blocks marble, Mexican Onyx and Trading Co.

From Windsor, N. S. — Schooner "*Davida*," 600 tons plaster, Windsor Gypsum Co.

From Zaza. — Bark "*Garfield*," 2,896 logs cedar, H. W. Erichs.

See last or next issue for the following advertisements.

Bailey Reflector Co.
Belmont Iron Works.
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Bridgeport Wood Finishing Co.
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A. B. & W. T. Westervelt.

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From Liverpool. — Steamer "*Tauric*," 281 casks bricks, 67 packages do., Meeker & Carter; 103 casks bricks, 1 box do., order. Steamer "*Nevada*," 37 cases granite, Jones Bros.

From London. — Steamer "*Ebro*," 50 casks cement, C. S. Stevens; 850 do., order. Steamer "*America*," 30 blocks marble, S. Klaber & Co.; 600 casks cement, 394 logs wood, 500 casks cement, order. Ship "*Hermann*," 5,000 casks cement, Marcial & Co.

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From Windsor, N. S. — Schooner "*Davida*," 600 tons plaster, Windsor Gypsum Co.

From Zaza. — Bark "*Garfield*," 2,896 logs cedar, H. W. Erichs.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

APARTMENT-HOUSES.

Boston, Mass. — *Joy St., No.* 52, four-st'y brick apartments, flat roof, 30' x 117'; owner, Peter Graffam; builders, O'Toole & Vose.

Marlborough St., Nos. 220-222. Ward 11, 2 six-st'y brick apartments, flat roofs, 28' x 90' and 56' x 90'; owner, Albert Geiger.

Cambridge St., Nos. 391-398, cor. Wilton St., Ward 25, three-st'y brick apartment, flat roof, 42.4' x 69.9'; owner, W. R. Chester; builder, John Mannion.

Longwood Ave., near Huntington Ave., Ward 22, four-st'y brick apartments, flat roof, 28.6' x 52'; owner, Martha Stanley; builders, Holmes Bros.

Monument St., cor. Laurel St., Ward 3, three-st'y brick apartments, flat roof, 30' x 50'; owner and builder, Michael Kelly.

Brooklyn, N. Y. — *Union St.*, s s, 85' w Henry St., 6 four-st'y brick apartment-houses, tin roofs; cost,

(*Continued on page* xv.)

FACTS ABOUT

HARD OIL FINISH.

STANDARDS.

There is even yet to a limited extent an idea abroad, and even among the Architects, that Hard Oil Finish is a staple article of average uniform quality manufactured by all varnish makers, and it is to this fatal mistake that many a ruined job of interior finishing is due.

Hard Oil Finish is no exception to other successful articles of merit; its name has been extensively counterfeited, although the goods themselves are made by but one firm in the world.

We originated and christened Hard Oil Finish and are and always have been its sole manufacturers.

Among the counterfeits of Hard Oil Finish are some of the cheapest and most worthless of varnishes; they have no fixed standard of quality as genuine Hard Oil Finish has, being made to suit any price, and it is needless to say they are entirely unfit for interior finishing purposes.

If an Architect specifies "Hard Oil Finish" and nothing more, he gives the contractor an opportunity of using one of the counterfeits, which is often done in these days of sharp competition for contracts, not as a rule through ignorance on the part of the contractor, but because the counterfeits cost less money than the genuine goods, and enable him either to figure closer or realize more money on a job.

The client is the sufferer when spurious Hard Oil Finish is used, and it frequently is used unless the specifications read "BERRY BROTHERS' HARD OIL FINISH."

BERRY BROTHERS,

VARNISH MANUFACTURERS.

NEW YORK, CHICAGO,
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Tasteful Embossed Designs Painted in Delicate Tints for first-class Residence Interiors.
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ORNAMENTAL HARDWOOD FLOORS,

WALLS, BORDERS, WAINSCOTINGS CEILINGS, of finest grades. Foreign and Domestic hardwoods

WRITE FOR BOOK OF DESIGNS.
THE INTERIOR HARDWOOD CO., Indianapolis, Ind.

BUILDING INTELLIGENCE.

$42,000; owner, Daniel Buckley, 39 Sterling Pl.; architect, Wm. Coots, 189 Montague St.

Carlton Ave., e s, 89′ 6″ n Park Ave., four-st'y brick apartment-house, tin roof; cost, $8,500; owner, Geo. A. Williams, 45 Carlton Ave.; architects, I. D. Reynolds & Son, 363 Fulton St.

Chicago, Ill. — Annie Thornton, 6 four st'y flats, 1261-1263 West Adams St.; cost, $35,000.

Anthony McNicholas, three-st'y flats, 51-53 Emerson St.; cost, $4,000.

Michael Doran, three-st'y flats, 3842 Parnell Ave.; cost, $3,200.

Martin Londlins, 2 three-st'y flats, 6126-6128 Lexington Ave.; cost, $14,000.

Letta May, three-st'y flats, 4223 Calumet Ave.; cost, $8,000.

August Schroeder, five-st'y flats, 117 Sedgwick St.; cost, $10,000.

Blazej Slareywer, three-st'y flats, 35 Kosciusko St.; cost, $4,000.

A. J. Golowski, three-st'y flats, 800 Elk Grove Ave.; cost, $5,000.

James Millies, two-st'y flats, 1408 Jackson Boulevard; cost, $4,000.

Alex Stewart, 2 two-st'y flats, 940-942 Ballou St.; cost, $3,000.

Johnson & Tindahl, two-st'y flats, 6603 Wabash St.; cost, $3,700.

F. W. Kuhn, two-st'y flats, 836 Sixty-first St.; cost, $6,500.

H. C. Lincoln, two-st'y flats, 7401 Fifty-fifth St.; cost, $6,000.

Frank Kinnare, two-st'y flats, 1468 Fulton St.; cost, $4,000.

Mrs. F. Hildebrandt, two-st'y flats, 254 Seminary Ave.; cost, $4,000.

Mrs. H. Newberg, three-st'y flats, 1447 Newport Ave.; cost, $5,000.

Nels. Johnson, 2 two-st'y flats, 869-871 Mead St.; cost, $4,400.

A. Trebilcock, 2 two-st'y flats, 547-551 Sixty-first St.; cost, $10,000.

A. Trebilcock, two-st'y flats, 7540 Union Ave.; cost, $5,000.

Worcester, Mass. — *Salem St.*, four-st'y brick and stone apartment block; owner and contractor, R. M. Bucklin; architect, W. H. Harvey.

CHURCHES.

Ambler, Pa. — Stone Baptist church, slate roof; architect, T. Frank Miller, 1221 Arch St.

Braddock, Pa. — John Bart has received the contract for the building of St. Joseph's Roman Catholic Church, to cost about $35,000.

St. Thomas's Roman Catholic Church will be built at a cost of about $50,000.

Bridgeport, Pa. — *Ford St.*, cor. Rambo St., Roman Catholic church; cost, from $50,000 to $75,000.

Bridgetown, N. J. — A church will be built by the English Lutherans.

Camden, N. J. — *William St.*, s e cor. Berkeley St., brick and stone chapel; contractor, Wm. Severns, 527 Arch St.

Chester, Pa. — A Protestant Episcopal Church will be built in Ward 2.

Chicago, Ill. — Cumberland Presbyterian Church, church, 6625-6633 Stewart Ave.; cost, $3,400.

Philadelphia, Pa. — *Oxford St.*, cor. Sixteenth St., two-st'y brick and terra-cotta church, slate roof, for Reformed Episcopal Church of Our Redeemer; architect, Frank R. Watson, 518 Walnut St.

Franklin, Pa. — A Baptist church will be built, at a cost of about $25,000.

St. Albans, Vt. — Brick church for First Congregational Society; architects, Lewis & Paine, Boston.

Uniontown, Pa. — *Stewart Ave.*, church for the Mount Olive (Colored) Baptist Church congregation.

FACTORIES.

New York, N. Y.—*Fifty-sixth St.*, n e cor. Eleventh Ave., two-st'y brick factory, tin roof; cost, $4,000; owner, Astor Estate, 1519 Broadway; lessees, Geo. B. & Jos. P. Loehr, 427 West Fifty-fourth St.; architect, John Gross, 425 West Fifty-fourth St.

Eleventh Ave., w s, 50′ n Forty-ninth St., three-st'y brick factory, tin roof; cost, $10,000; owner, Albert Smith, 479 Eleventh Ave.; architects, Cleverdon & Putzell, 13 Astor Pl.

Cherry St., No. 312, five-st'y brick factory, tin roof; cost, $7,009; owner, John A. Auger, 389 Grand St.; architects, J. Boekell & Son, 51 Bond St.

Willett St., No. 36, seven-st'y brick factory, tin roof; cost, $14,000; owner, Dr. Emil H. Biedel, 146 Delancy St.; architect, Frederick Jenth, 191 Forsyth St.

Norristown, Pa. — W. K. Gresh & Sons will build a cigar-factory.

Philadelphia, Pa. — *Heid St.*, cor. Thirteenth St., factory for E. Heid; architect, J. Franklin Stuckert, 525 Walnut St.

HOUSES.

Boston, Mass. — *East Lenox St., No.* 30, Ward 20, three-st'y brick dwell., flat roof, 19.3′ x 23.6′; owner, E. R. Fernald; builder, G. M. Fernald.

Beacon St., Nos. 870-876, Ward 22, 4 four-st'y brick dwells., flat roofs, 22.6′ x 52′; owner and builder, W. D. Vinal.

Ocean St., near Wells Ave., Ward 24, frame dwell., 37′ x 44′; owner, Mrs. Clara P. Potter; builder, John McDonald.

Heath St., No. 183, Ward 22, three-st'y frame dwell., flat roof, 26′ x 44′; owner, Elizabeth Marr; builder, R. D. Ward.

Kilsyth Road, near Lanark Road, Ward 25, frame dwell., hip roof, 36.6′ x 37.6′; owner, Charles C. Barton; builder, R. I. Flewelling.

Dracut St., near Dorchester Ave., Ward 24, three-st'y frame dwell , flat roof, 32′ x 37′; owner and builder, Joseph J. Stewart.

Dorchester Ave., cor. Dracut St., Ward 24, 2 three-st'y frame dwells., flat roofs, 32′ x 48.6′ and 38′ x 45′; owner and builder, Joseph J. Stewart.

Clifton St., No. 26, Ward 20, three-st'y frame dwell., flat roof, 25′ x 54′; owner and builder, Geo. L. Gilman.

Blue Hill Ave., near Rockville St., Ward 24, two frame dwells., 29′ x 43.6′; owner, Fred J. Taber; builders, John A. Tucker & Son.

Roxbury St., No. 78, *rear*, Ward 21, three-st'y frame dwell.; flat roof, 24′ x 47′; owner, James H. Nugent; builder, Thomas J. Tobin.

Morse St., near Washington St., Ward 24, frame dwell., 29.6′ x 44′; owner and builder, Henry J. Rice.

Brooklyn, N. Y. — *Jefferson Ave.*, s s, 256′ e Lewis Ave., three-st'y brick dwell., tin roof; cost, $6,000; owner and builder, Thomas B. Saddington, 356 Hancock St.; architect, F. De Witt Vrooman, 356 Hancock St.

Pacific St., n s, 117′ 11″ e Washington Ave., 3 four-st'y brick dwells., tin roofs; cost, $6,500 each; owner and builder, E. Soderstrom, 686 Bergen St.; architect, W. H. Wirth, 358 Seventeenth St.

Halsey St., No. 458, four-st'y brick dwell., tin roof; cost, $10,000; owner, Thos. H. Brady, 690 Lafayette Ave.; architect, Charles Werner, Garfield Building.

Jefferson Ave., s s, 200′ e Lewis Ave.; 3 two-and-one-half-st'y brick dwells., tin roofs; cost, $5,500 each; owner and builder, Thomas B. Saddington, 356 Hancock St.; architect, F. De Witt Vrooman, 356 Hancock St.

Grattan St., No. 53, three-st'y frame dwell., tin roof; cost, $4,500; owner and builder, C. Hestermann, 807 Park Ave.

Fairfax St., n s, 100′ e Bushwick Ave., 6 two-st'y frame dwells., tin roofs; cost, $3,000 each; owner, James Graham, 122 Cleveland St.

Cincinnati, O. — J. H. Scudder, 2 two-st'y frame dwells., Fredonion Ave.; cost, $3,000; architect, H. Burbank.

J. Wahn, two-st'y frame dwell., Hill St.; cost, $2,700; architect, G. Prinz.

Herman Wolf, two-and-one-half-st'y brick and stone dwell., Liberty St.; cost, $3,000; architects, G. & A. Brink.

Adolph Peters, two-and-one-half-st'y brick and stone dwell., Queen City Ave.; cost, $3,500; architects, G. & A. Brink.

L. Upsing, two-and-one-half-st'y brick and stone dwell., Carl St.; cost, $3,500; architect, G. W. Hopkins.

Margaret McCarten, two-and-one-half-st'y brick and stone dwell., Fremont St.; cost, $2,700; architect, George Clark.

Samuel Fleishman, two-and-one-half-st'y brick and stone dwell., McMillan St.; cost, $14,000; architect, S. S. Godley.

Roxbury, Mass.—*Alleghany St.*, frame dwell., 27′ x 46′; owner, W. A. Folsom, agent; builder, W. Ballantyne; architect, J. F. Eaton, Boston.

Somerville, Mass.— *Gorham St.*, frame dwell., 23′ x 50′; owner, Chas. J. Simpson; builder, I. B. Phinney.

Jay St., frame dwell., 22′ x 34.6′; owner, Charles J. Simpson; builder, I. B. Phinney.

Jay St., near Holland St., frame dwell., 22′ x 34.6′; owner, Chas. J. Simpson; builder, I. B. Phinney.

Carlton St., rear, frame dwell., 25′ x 28.6′; owner, Geo. W. Lake; builder, G. W. Reagan.

Morton St., near Glen St., frame dwell., 22′ x 27′; owner, John Hughes; builder, Sylvester Woods.

Central St., near Albion St., frame dwell., 28′ x 43′; owner, E. N. Everett; builder, George E. Hutchinson.

Oxford St., near Central St., frame dwell., 26′ x 52.6′; owner, Catherine Crimman; builder, E. J. Cogan.

Professor's Row (College Hill), frame dwell., 30′ x 30′; owner, Mr. Kingsley; builder, J. H. Stevens.

Sewall St., near Temple St., frame dwell., 22′ x 28′; owners and builders, Edward B. Ludlow & Co.

Beacon St., No. 316, frame dwell., 25′ x 50′; owner, Jennie C. Pickering; builder, J. K. Pickering.

Gorham St., frame dwell., 24′ x 50′; owner and builder, I. B. Phinney.

Amos St., cor. Bartlett St., frame dwell., 27.6′ x 45′; owner, Chas. King; builder, S. Griffiths.

Worcester, Mass. — *East Central St.*, three-st'y frame dwell.; owner, E. W. Joyce; contractor, J. A. Kennedy.

Shattuck St., two-st'y frame dwell.; owner, Thos. Walters, Jr.; contractor, W. E. Putnam; architect, W. H. Harvey.

Vernon St., three-st'y frame dwell.; owner, Bernard McDonough; contractor, William Power.

Pattison St., three-st'y frame dwell.; owner, Dan McCarthy; contractor, William Power; architect, J. P. Kingston.

Wachusett St., two-st'y frame dwell.; owner, Jas. C. Stewart; contractor, C. A. Vaughn.

Merrifield St., three-st'y frame dwell.; owner, John Finnegan; contractors, Yates & Delaney.

Seymour St., three-st'y frame dwell.; owner, Chas. McCarthy; contractors, Davis & Melican.

PUBLIC BUILDINGS.

Chicago, Ill. — Cook County, six-st'y criminal court building, Dearborn Ave. and Michigan St.; cost, $400,000.

SCHOOL-HOUSES.

Charlottesville, Va.— The authorities contemplate the building of a $25,000 school.

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BUILDING INTELLIGENCE.

Houston, Texas. — The building of four school-buildings, to cost $15,000 each, and a $75,000 high school-building is contemplated.

Louisville, Ky. — The authorities contemplate the building of two school-buildings, to cost $18,000 each.

New York, N. Y. — *Fifty-fifth St.*, s s, 325′ w Sixth Ave., four-st'y brick school; cost, $45,000; owner, City of New York; architect, C. B. J. Snyder, 146 Grand St.

Somerville, Mass. — *Washington St.*, cor. Kingman Court, three-st'y brick and stone parochial school, pitch roof, 64′ x 103′; owner, Father McGrath; builders, Thomas Bros.

STABLES.

Boston, Mass. — *Dalton St.*, cor. Cambria St., Ward 11, two-st'y brick stable, flat roof, 47′ x 54′; owner, G. B. Wilbur; builder, W. L. Rutan.

Brent St., rear, near Carlisle St., Ward 24, frame stable, 18′ x 20′; owner, Agnes J. Wyman; builder, H. N. Wyman.

Windom St., rear, near Cambridge St., Ward 25, frame stable, 17′ x 20′; owner and builder, D. H. McKay.

Lauriat Ave., rear, Ward 24, frame stable, 16′ x 20′; owner, M. J. Stanton.

Fuller St., rear, No. 74, Ward 24, frame stable, 20′ x 24′; owner and builder, C. D. Parker.

Franklin Park Terrace, rear, cor. Walnut Ave., Ward 23, frame stable, 22′ x 33′; owner, J. B. Fallon; builder, P. M. Brown.

Western Ave., rear, No. 305, Ward 25, frame stable, 22′ x 33′; owner, J. Callahan; builder, Peter Hughes.

Norfolk Ave., junc. Cottage St., Ward 20, two-st'y frame stable, flat roof, 34′ x 37′; owners, Welch & Wilson.

Brooklyn, N. Y. — *Lawrence St.*, e s, 300′ n Willoughby Ave., three-st'y brick stable, tin or gravel roof; cost, $3,500; owner, F. S. Henderson, Myrtle Ave. and Jay St.; architect, W. C. Booth, 72 Myrtle Ave.

Ralph Ave., w s, 30′ s Lexington Ave., three-st'y brick stable, felt and gravel roof; cost, $10,000; owner and architect, Chas. T. Corby, 5 Ralph Ave.

Worcester, Mass.—*Townsend St.*, one-and-one-half-st'y frame stable; owner, E. A. Weeks; day work.

Dorrance St., one-and-one-half-st'y frame stable; owner, John McLaughlin; day work.

STORES.

Brooklyn, N. Y. — *Watkins St.*, e s, 100′ s Eastern Parkway, four brick stores and dwells., *Rockaway Ave.*, e s, 175′ s Belmont Ave., two stores and dwells., and *Rockaway Ave.*, e s, 25′ n Sutter Ave., three brick stores and dwells., tin roofs; cost, $8,000 each; owners and builders, Scheinfeld & McCourt, Livonia Ave., near Thatford St.; architect, A. J. Warren, 2583 Atlantic Ave.

Eastern Parkway, s s, 46′ 6″ w Osborn St., 3 three-st'y frame stores and dwells., tin roofs; cost, $4,000; owners and builders, Levin & Gittelsohn, 93 Thatford Ave.; architect, A. J. Warren, 2583 Atlantic Ave.

Chicago, Ill. — J. H. Abrud, 2 two-st'y stores and flats, 6901-6903 Wright St.; cost, $3,400.

Creimer & Leick, three-st'y store and flats, 29 Eugenie St.; cost, $7,500.

Frank Munderbar, 2 two-st'y stores and flats, 6600-6602 Cottage Grove Ave.; cost, $4,500.

Ida A. Porter, 6 four-st'y stores and flats, 622-630 North Clark St.; cost, $40,000.

Walter De Wolf, three-st'y store and flats, 1654-1656 Garfield Boulevard; cost, $10,000.

Joseph B. Breen, three-st'y store and flats, 368 West Van Buren St.; cost, $6,500.

M. L. Springer, three-st'y store, flats and bakery, 385 St. Lawrence St.; cost, $30,000.

Ole Erickson, two-st'y store and flats, 1802 Milwaukee Ave.; cost, $3,000.

Edward G. Halle, eight-st'y store and office-building, 120-122 East Randolph St.; cost, $75,000.

Charles Schaeffer, three-st'y store and flats, 1844 Milwaukee Ave.; cost, $5,000.

J. Augenum, two-st'y store and flats, 4003 Armour Ave.; cost, $4,000.

James M. Flynn, two-st'y store and flats, 3441 Wentworth Ave.; cost, $3,500.

George Stevinson, 2 two-st'y stores and flats, 4523-4525 State St.; cost, $15,000.

August Peterson, three-st'y store and flats, 1542 North Clark St.; cost, $5,000.

W. Nowacquoski, four-st'y store and flats, 838 Milwaukee Ave.; cost, $15,000.

Lars Larson, four-st'y store and flats, 482 North Erie St.; cost, $9,600.

John Hoerber, four-st'y store and flats, 771 Twenty-first St.; cost, $12,000.

William Ed. Gillen, two-st'y store and flats, 7026 Oglesby Ave.; cost, $3,000.

TENEMENT-HOUSES.

Boston, Mass. — *Leverett St., Nos.* 84-86, Ward 8, 2 five-st'y brick tenements and stores, flat roofs, 27.6′ x 56′, 47.6′ x 48′; owner, Casper Berry; builders, Donohue Bros.

Ashland St., No. 8, Ward 8, five-st'y brick tenement and store, flat roof, 36.6′ x 50′; owner, Casper Berry; builders, Donohue Bros.

Columbus Ave., No. 28, and *Grenville Pl., Nos.* 18-22, Ward 11, six-st'y brick tenement and store, flat roof, 56′ x 57′; owner, W. P. Jenney, *et als.*; builders, D. H. Weld & Son.

Moon St., No. 4, Ward 6, four-st'y brick tenement, flat roof, 22.9′ x 33.9′; owner, L. A. Cavagnavo; builder, J. E. Brown.

Washington St., near Winship St., Ward 25, 2 four-st'y brick tenements, flat roofs, 45′ x 65′; owner, Hannah E. Fitzgerald; builder, J. J. Flynn.

Salem St., No. 155, Ward 6, five-st'y brick tenement, flat roof, 24.6′ x 51′; owner, M. Leverane; builders, Fessenden & Libby.

Heath St., opp. Schiller St., Ward 22, four-st'y frame tenements and store, flat roof, 20′ x 40′; owner, Elizabeth Mall; builders, R. D. Ward & Co.

Brooklyn, N. Y. — *Clifton Pl.*, n s, 200′ e Franklin Ave., four-st'y brick tenement, gravel roof; cost, $7,000; owner and architect, Myron C. Rush, 329 Franklin Ave.

Somerville, Mass. — *Aldrich St.*, near Gilman St., three-st'y frame tenement, flat roof, 69′ x 90′; owner, Frank L. Blood; builder, Robert F. Files.

WAREHOUSES.

Chicago, Ill. — Heywood Morrill Rattan Co., six-st'y warehouse, 1296-1308 Howard St.; cost, $45,000.

John B. Mallers, seven-st'y warehouse, 196-210 Market St.; cost, $300,000.

PROPOSALS.

DEPOT.

[At St. Louis, Mo.]
ST. LOUIS, July 5, 1892.

Sealed proposals will be received at the office of the undersigned **until 10** A. M. on **July 30, 1892**, for all the labor and materials requisite to erect complete the endhouse of the Union Depot, excepting the foundations, heating and plumbing, in accordance with the drawings and specifications, copies of which may be seen at the office of Theo. C. Link, Architect, Equitable Building. 865

Treasury Department, Office Supervising Architect, Washington, D. C., July 19, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 11th day of August, 1892, and opened immediately thereafter for supplying and delivering at freight depot at place of designation, the Post-office lock boxes, lock drawers, locks, pulls, plates, etc., for United States Public Buildings, in accordance with specification, as may be ordered during the fiscal year ending June 30, 1893. Copies of the specification and any additional information may be had on application at this office. Each bid must be accompanied by a certified check for $100. The right is reserved to reject any or all bids or to waive any defect or informality in any bid should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Lock Boxes, Lock Drawers, Locks, Pulls, Plates, etc., for the United States Post-offices," and addressed to W. J. EDBROOKE, Supervising Architect. 866

Treasury Department, Office Supervising Architect, Washington, D. C., July 12, 1892. Sealed proposals will be received at this office until two o'clock, P. M. on the 9th day of August, 1892, and opened immediately thereafter, for all the labor and materials and fixing in place complete a first-class heating and ventilating apparatus for the United States Post-office building at Lansing, and the United States Post-office, etc., building at Jackson, Mich. General drawings and specification may be had on application at this office or the office of the Superintendent of each of the above named buildings. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Heating and Ventilating Apparatus for the United States Post-office building at Canton, Ohio, the United States Post-office building at Lansing, Mich., or the United States Post-office building at Jackson, Mich.," (as the case may be) and addressed to W. J. EDBROOKE, Supervising Architect. 866

Treasury Department, Office Supervising Architect, Washington, D. C., July 8, 1892. Sealed proposals will be received at this office until two o'clock P. M. on the 3d day of August, 1892, and opened immediately thereafter, for all the labor and materials required for the stone and brick work, roof covering, approaches, etc., for the superstructure, and also for the cast-iron columns, steel floor, ceiling and roof construction, etc., of the United States Court-house, Post-office, etc., building at Wilmington, Del., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Wilmington, Del. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. Bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Stone and Brick Work, Roof Covering, Approaches, etc., or for Cast-iron Columns, Steel Floor, Ceiling and Roof Construction, etc., of the United States Court-house, Post-office, etc., building at Wilmington, Del.," as the case may be, and addressed to W. J. EDBROOKE, Supervising Architect. 865

THE following Report by Prof. J. S. Newberry, Professor of Geology and Paleontology in the Columbia College School of Mines, in which he has established a museum of 100,000 specimens of rare value, should be given due weight as being the opinion of the highest living authority upon the subject of which he writes.

Dr. Newberry was born in Windsor, Ct., December 23, 1822. He graduated from Western Reserve College in 1846, and from the Cleveland Medical College in 1848, spent two years in study abroad, and then began the practice of medicine in Cleveland, where he remained until 1855.

During this year he was appointed acting Assistant-Surgeon and Geologist to the party, which under Lieut. Robert S. Williamson, explored the country between San Francisco and the Columbia River. He assisted Lieut. Joseph C. Ives in the exploration of the Colorado River, and was with Capt. John N. Macomb, on the San Juan and Upper Colorado Rivers. In 1859 Prof. Newberry travelled over the plains of Southern Colorado, Utah, Northern Arizona and New Mexico.

In 1866 Prof. Newberry was elected Professor of Geology and Paleontology in the Columbia College School of Mines. In 1869 he was appointed State Geologist of Ohio.

Seven years ago he was appointed paleontologist to the United States Geological Survey, having charge of the investigation of fossils, botany and fishes. Western Reserve College conferred the degree of LL. D. upon him in 1867. In 1888 the Geological Society of London presented him with the Murchison gold medal. He is a member of the Scientific Societies of America and Europe, was named by Congress one of the corporate members of the National Academy of Science, has been President of the American Association for the Advancement of Science, and of the New York Academy of Science since 1867, and is President of the Torrey Botanical Club.

Dr. Newberry is the author of more than two hundred titles, and stands in the front rank of the mining experts of the world.

The Potsdam Sandstone from the quarries of the Potsdam Red Sandstone Company, has been used so extensively by builders of the United States and Canada, and its reputation is so well established, that it might seem that no further word was needed on this subject. It has been under my observation for many years in the public buildings at Ottawa, Canada, and elsewhere, and more particularly in the recently constructed buildings of Columbia College, New York. I had subjected the stone used at Columbia to microscopic observation, chemical analysis and physical tests, at the time when the choice of stone was under consideration by our architect. From these experiments I had learned as I supposed all that it was necessary to know about the stone, viz: that it was a dark red banded sandstone, having a resistance to a crushing force of 17,000 to 18,000 pounds per square inch; that it consisted of silica with a slight ingredient of iron, from which it took its color, and preferable so far as strength, homogeneousness and durability were concerned to any other sandstone known to me. I therefore unhesitatingly recommended its use, and I have never since had occasion to change my mind in regard to its superiority. Still, when I went over the ground and examined the stone in place, and noticed the marked difference in the stone of the different quarries of this company, and especially when I had subjected a new series of specimens to tests for physical strength, I found that I had much to learn in regard to its variety and excellence.

In the first place I discovered that instead of one, there are at least three marked varieties of this stone, possessing different degrees of strength and shades of color, affording to the architect a means of securing a range of effects, when used either singly or in combination. Also, that the stone which we had used at Columbia, though possessing greater strength than any sandstone submitted to trial, was far surpassed in this respect by some of the other varieties attainable, and that the strongest not only exceeded in strength all other varieties of stone tested at the School of Mines, but even resisted the full crushing force of the powerful Emery testing-machine, which we have recently had constructed, and which was supposed to be capable of reducing to powder any building stone submitted to its action. The resistance to crushing force in the specimens tested, varied from 18,401 pounds to the square inch to 42,804, or rather to and beyond the extreme crushing force of our machine; for it was found impossible to overcome with the machine the resistance of two inch cubes of the strongest stone, although the pressure was carried up to 151,000 pounds. Hence we can say that the resistance to crushing force, of the strongest variety, exceeds 42,000 pounds to the square inch, a result greater than we have obtained from tests on granite of any kind, from trap or any other variety of building stone.

The element of beauty is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C.

As I have said, I was surprised to find in the different quarries of this Company so many varieties of color in the stone. In the west quarries, the typical "Red Potsdam," either plain or banded, prevails. On their southern tracts are outcrops of homogeneous and monochrome, chocolate-colored stone in heavy ledges, which will yield blocks of any desired size, while in their quarries on the east side are exposed about fifty feet of rather massive layers, separated by a band of fifteen feet of foundation or bridge stone. The upper and lower bands composing the fifty feet referred to, are mainly of light colored homogeneous stone, to which I was a stranger before visiting the quarries. This is of a reddish cream-color, very uniform in tint and pleasing to the eye. It comes out in layers from two to six feet in thickness and splits with ease and certainty in any direction. With the chocolate-colored stone, to which reference has been made it may be combined with fine effect, one variety being used for trimming to the other, as corner stones, door and window caps, porches, etc., or associated as block stones in plain walls.

This cream-colored variety works with comparative ease, and may be wrought into moulding and ornaments, much more cheaply than the harder varieties, which will be best used when hammer dressed, a style of treatment to which every phase of the stone will lend itself, as it breaks true and even under the hammer.

The different tracts of land controlled by this Company comprise about two hundred acres, distributed for about a mile up and down Racquette river, and selected with judgment so as to embrace the best outcrops of stones found in the district. On all these tracts the Potsdam sandstone is practically the surface rock, being covered only with a layer of greater or less thickness of boulder clay. In quantity, therefore, the quarries are practically inexhaustible, and it is not too much to say that they may be worked for centuries without embarrassment.

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The stone from the quarries of this Company is unexcelled for beauty of color and effect. As the only way that architects can get an idea of the color of the stone is by inspection of a sample, we shall be glad to forward samples and full information to architects who may apply for the same.

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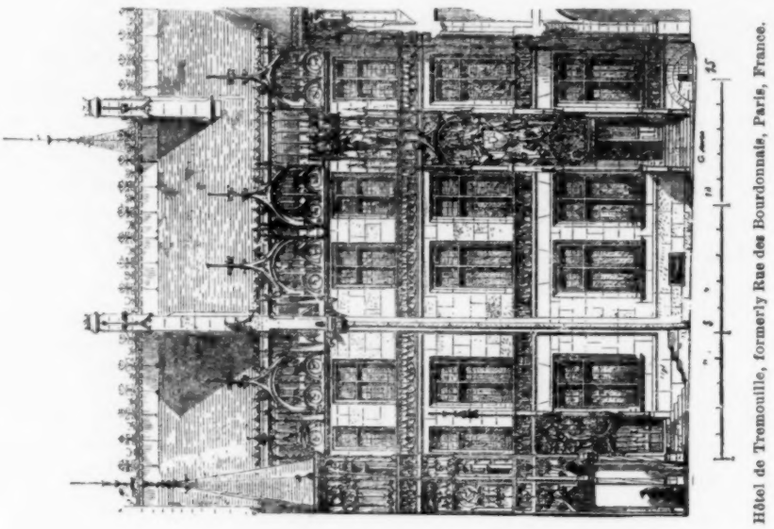
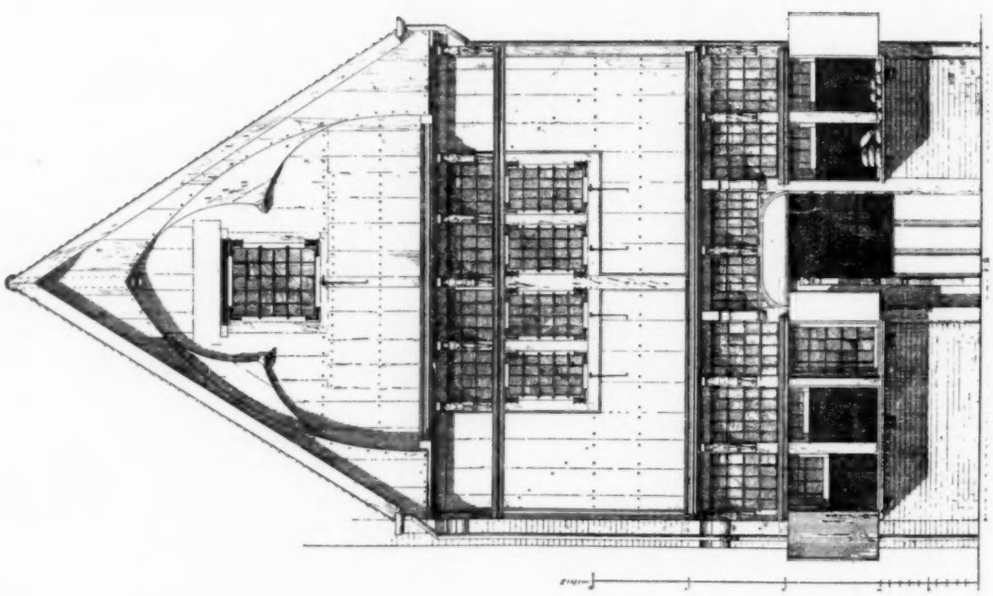
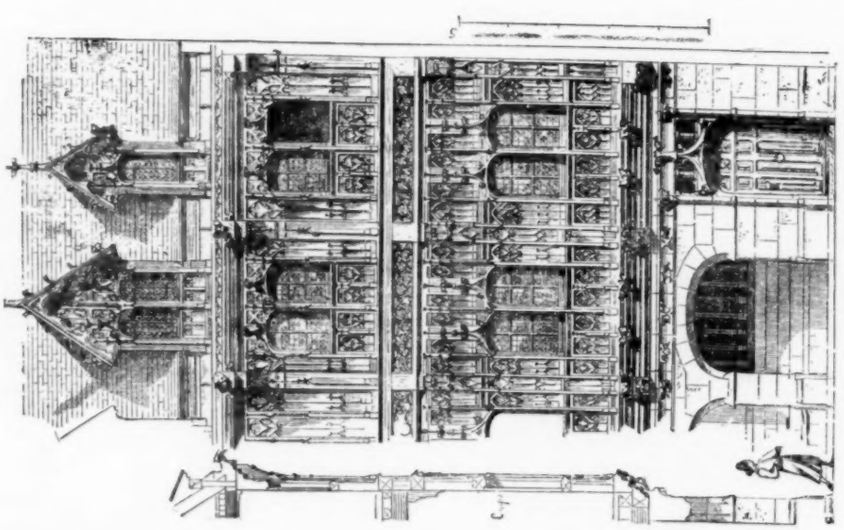


Hôtel de Tremouille, formerly Rue des Bourdonnais, Paris, France.



House on the Rue de Lille, Ypres, Belgium.



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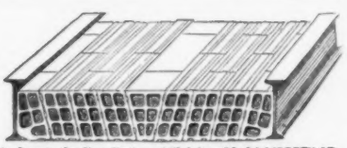

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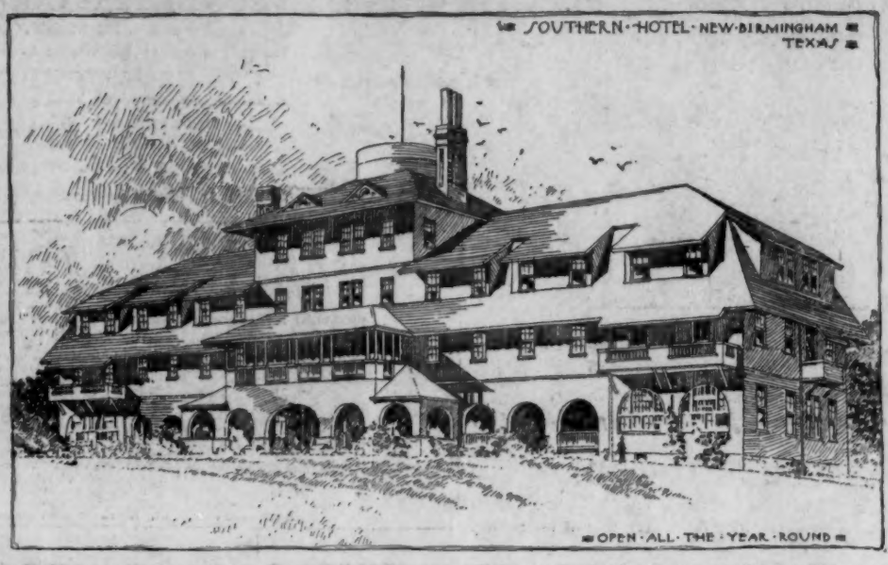

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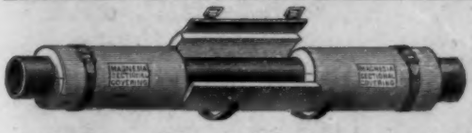

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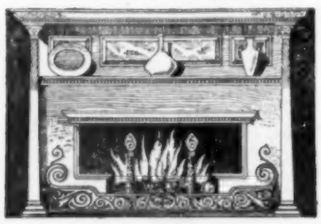

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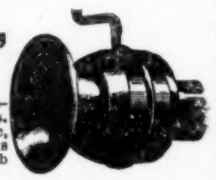

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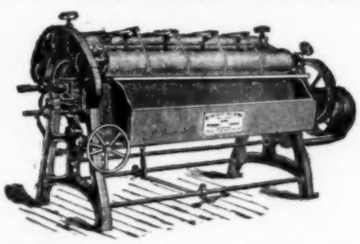

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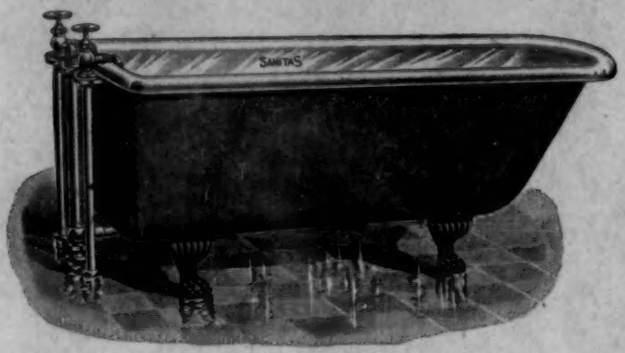

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Boards: (*Ordinary dimensions.*)				
Pine, 1st quality, clear	65 00 @ 75 00	50 00 @ 60 00	30 00 @ 47 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	25 00 @ 28 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	35 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	13 50 @ 25 00	*Not sold.*	16 00 @ 20 00
Hemlock	ea 13½ @ 14	13 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	25 00 @ 35 00	29 00 @ 37 00	14 00 @ 29 00
Cypress	@	31 00 @ 40 00	@	@ 35 00
Clapboards:				
Pine	@	38 00 @ 60 00	10 00 @ 22 00	14 00 @ 25 00
Spruce	@	23 00 @ 35 00	*Not sold.*	*Not sold.*
Framing Timber:				
Pine			12 00 @ 15 00	25 00 @ 37 30
Spruce	14 00 @ 18 00	15 00 @ 18 00	*Not sold.*	16 00 @ 18 00
Hemlock	12 00 @ 16 00	13 00 @ 15 00	10 00 @ 13 00	13 00 @ 17 00
Yellow pine	18 00 @ 21 00	24 00 @ 35 00		22 00 @ 28 00
Laths:				
Pine	@	2 25 @ 2 35	2 10 @ 2 25	2 75 @ 3 00
Spruce	2 85 @ 3 00	2 35 @ 2 50	*Not sold.*	2 30 @ 3 00
Shingles:				
Pine, shaved ₱ M.	5 00 @ 6 00	@	*Not sold.*	
Pine, sawed "	4 00 @ 5 00	@ 4 50	2 20 @ 3 00	
Spruce, sawed "	1 50 @ 2 00	1 50 @ 00	*Not sold.*	
Redwood ₱ 125	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	
Cedar split ₱ M.	@	@	*Not sold.*	30" $3.35 @ 40
Cedar sawed "	@	2 00 @ 4 00	2 00 @ 2 35	24" 8 @ 21
Cypress. Split....7 x 24. "	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	20" 35 @ 14
				11 00 @ 14 00
Miscellaneous:				
Piles ₱ ft.	4½ @ 5½	Piles 6c. ₱ ft.	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P.10 00 @ 18 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.)	@	25 @ 50	9 @ 21	40 @ 1 25
Chestnut posts	@	25 @ 50	*Not sold.*	20 @ 30
Finishing Woods: ₱ M. (*First Qual.* [*Kiln-dried.*)				
Ash	@ 55 00	45 00 @ 60 00	30 00 @ 35 00	30 00 @ 40 00
Cherry	80 00 @120 00	90 00 @ 120 00	80 00 @ 110 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	50 00 @ 60 00	70 00 @ 80 00
Hard-pine floors (rift)		45 00 @ 50 00		
Mahogany, Baywood [Mexican]	@180 00	150 00 @ 160 00	150 00 @ 200 00	150 00 @ 250 00
" St. Domingo	@350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
Oak, red	@ 70 00	@ 50 00	32 00 @ 40 00	45 00 @ 55 00
" white	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	35 00 @ 50 00	57 50 @ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	35 00 @ 50 00	@ 65 00
Redwood	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
Rosewood ₱ lb.	@ 6		@ 7	
Spruce floors (clear, kiln-dried)		32 00 @ 35 00		
Walnut, black	125 00 @150 00	85 00 @ 120 00	55 00 @ 100 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	40 00 @ 45 00	18 00 @ 40 00	25 00 @ 40 00
Yellow pine ₱ M.	@ 45 00	40 00 @ 42 00	29 00 @ 40 00	@ 47 00

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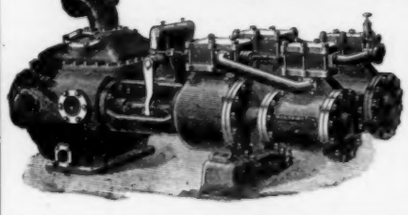

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Jersey	4 00 @ 4 75	9 00 @ 10 00	@ 6 50	" @ 7 00
Long Island	@	Bay State Hard		Salmon @ 5 00
Up River	4 00 @ 4 75	7 00 @ 8 00		Sq. " @ 9 00
Haverstraw Bay 2d	4 75 @ 5 00	Domestic Com.	Indiana Pressed	Light Stretchers @ 10 00
" 1st	5 00 @ 5 25	9 50 @ 10 00	14 00 @ 20 00	Medium " @ 12 00
Hollow	@ 13 00	Domestic Face	St. Louis Fronts	Red " @ 13 00
Fronts:		20 00 @ 22 00	@ 27 00	Dark " @ 13 00
Croton, Brown	@ 13 00	Philadelphia	15 00 @ 27 00	Pressed 18 00 @ 20 00
" dark	@ 14 00	40 00 @ 45 00	65 00 @ 350 00	Best Paving @ 14 00
" red	@ 14 00	Phila. mould	@ 55 00	Second " @ 13 00
Chicago pressed (Anderson)		50 00 @ 80 00	45 00 @ 50 00	Third " @ 12 00
" Moulded			45 00 @	
Baltimore	37 00 @ 41 00	Anderson	25 00 @	Dom. @ 65
Philadelphia	23 00 @ 24 00	14 00 @ 32 00	60 00 @ 100 00	@ 85
Trenton	22 00 @ 23 00		30 @	
Milwaukee			35 @	
Moulded:			55 00 @ 65 00	
Glens Falls Red Pressed	@ 37 00		@ 100 00	
" " Buff "	@ 30 00		@ 120 00	
" " Moulded Red & Buff	45 00 @ 70 00			
Enamelled: *Imp.*				
Enamelled (edge)	85 00 @ 100 00			
Enamelled (edge and end)	90 00 @ 115 00			
CEMENT, LIME, etc.—(₱ *cask.*)				
Rosendale Cement	85 @ 95	1 20 @ 1 40	*Not sold.*	1 30 @ 1 50
Louisville "		Brooks, S. & Co.	1 05 @ 1 30	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	*Not sold.*	2 60 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs)	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 2 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	Josson
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	2 60 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover)	2 50 @ 3 00		*Not sold.*	2 75 @ 2 85
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	2 70 @ 3 00
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush 25 @ 30
Hydraulic Lime	@ 1 45	@ 1 35		White Mash 1 25 @ 1 50
Chicago Lime in bulk		St. John 1 00	55 @	1 00 @ 1 00
Wisconsin Lime			60 @	
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ *bush*	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		35 @ 60	75 @ 1 50
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Dimension		5 00 ℔ ton.	20 @	@ 5 00
Block		4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: ℔ *sq. ft.)*				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in. th. 10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 11
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	}
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	55 @ 1 00
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle. English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	225 @ 4 00
" " Chapmans	@	@	7 50 @ 8 00	00 @ 4 65
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am ℔ M	@	@	*Not Sold.*	@ 25 00
N. Peach Bottom, warranted unfading	@	@	@	6 00 @ 6 75
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 30	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ *gal.*)	55 @ 62	40 @ 41	57 @ 60	@ 60
" " boiled. (℔ *gal.*)	58 @ 65	43 @ 44	60 @ 63	@ 63
Turpentine (℔ *gal.*)	36 @ 37	@ 35	51 @ 51	@ 44
Varnish, coach (℔ *gal.*)	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac (℔ *gal.*)	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting (℔ *cwt.*)	75 @ 1 00	1 @ 1½	1 @ 1½	½ @ 1
Paris white, (Eng.) (℔ *cwt.*)	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am (℔ *cwt.*)	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt) (℔ *cwt.*)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber " (℔ *cwt.*)	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask 2 90 (all kinds.)
Butts: 4" x 4" (℔ *doz. pairs.*)	@ 1 00	@ 1 20	@ 90	@ 90
Plain	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 75
Acorn, Japanned	@ 65	@ 50	*Not Sold.*	48 @ 50
Ball Tip, Boston Finish (℔ *pair.*)	@ 1 90	plain 1 65	2 00 @ 3 25	@ 1 25
Bronze metal	@ 10	@ 10	@ 12	@ 1 00
Brass (for cupboards.)	@	@	@	@ 35
Ebony	@	@	@	37 @ 1 00
Apple wood	@	@	@	
Knobs: (℔ *set.*)				
Mineral, best	@ 8	@ 8	8 @ 10	@ 08
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Hemacite	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Porcelain	@ 30	@ 10	25 @ 30	@ 25
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Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass	1 60 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:	@	@	13 @ 16	13½ @ 16
Sheet Lead	@	@ 7½	@ 7	@ 6½
Lead Pipe	@	@ 6½	@ 6½	6 @ 6
Iron:				
I-Beams, up to and including 36 ft	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ¼, ½, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 4-10	3 20 @ 3 70	@ 2 8-10

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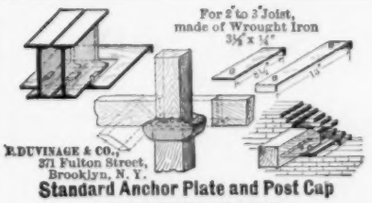

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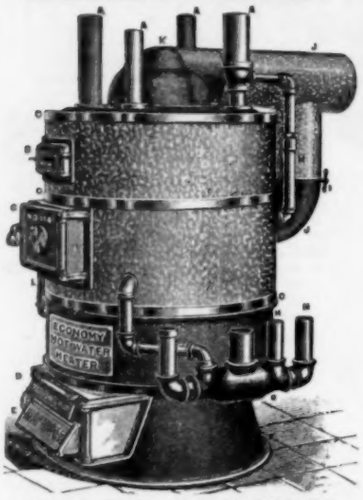

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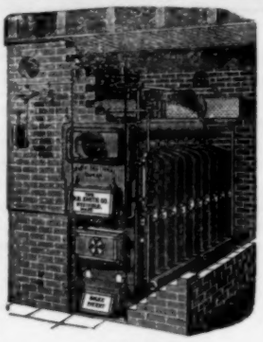

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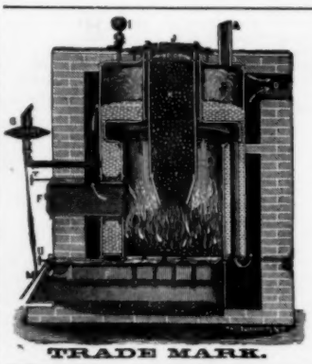

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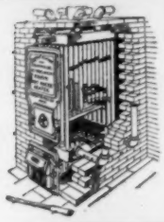

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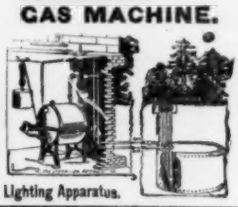

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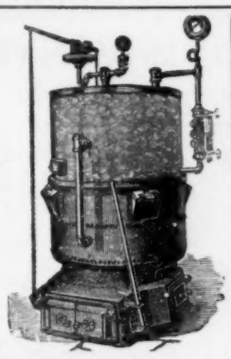

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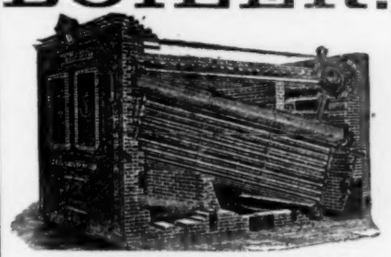

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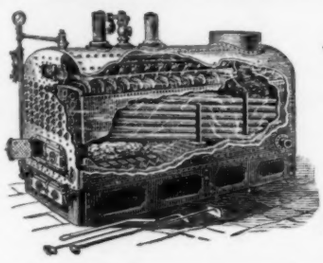

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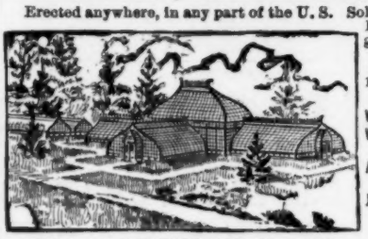

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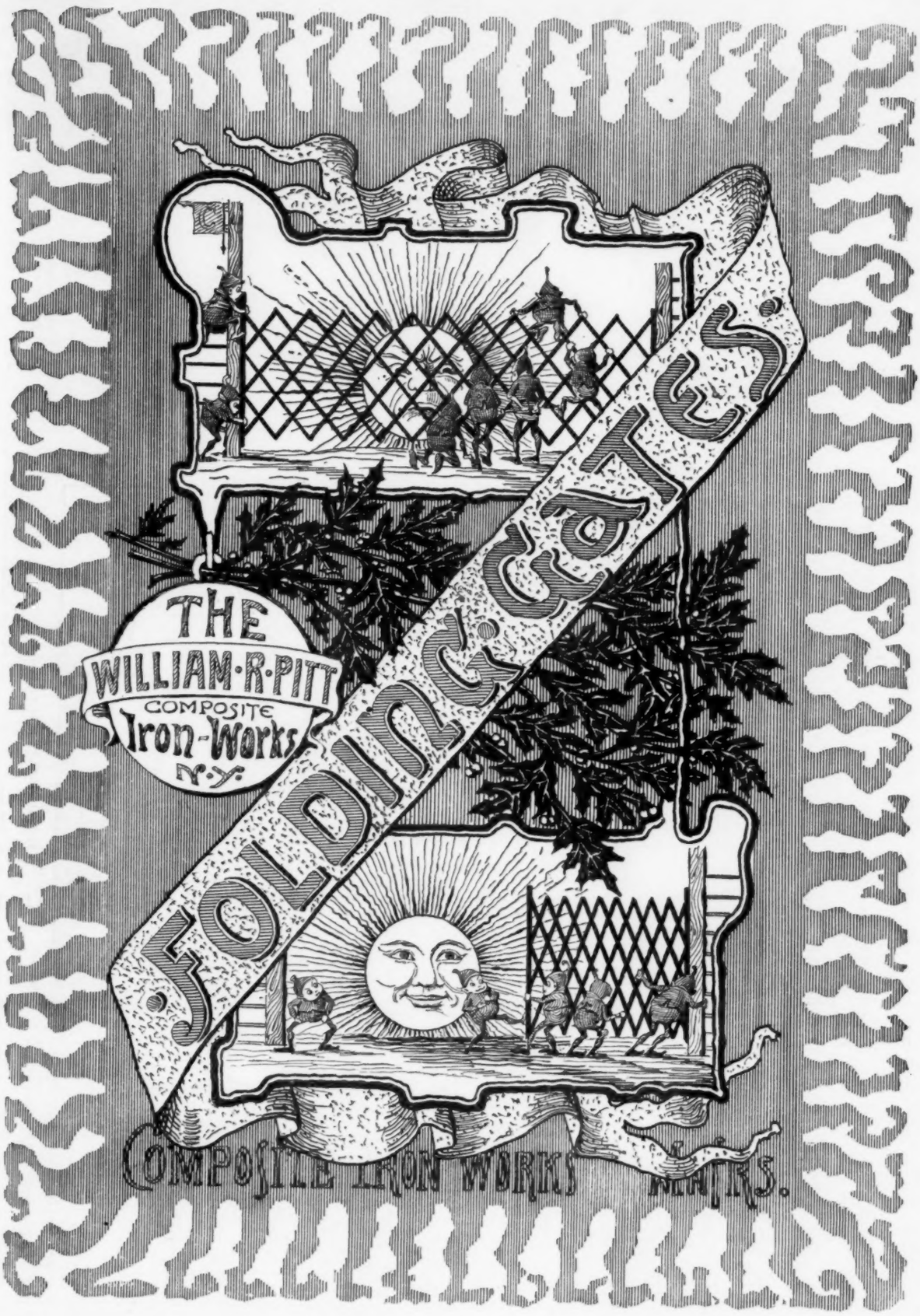

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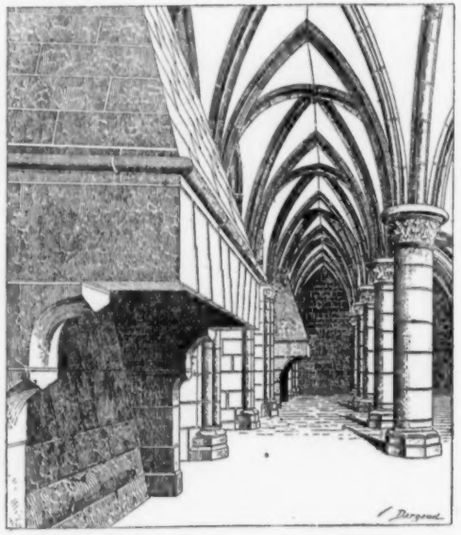

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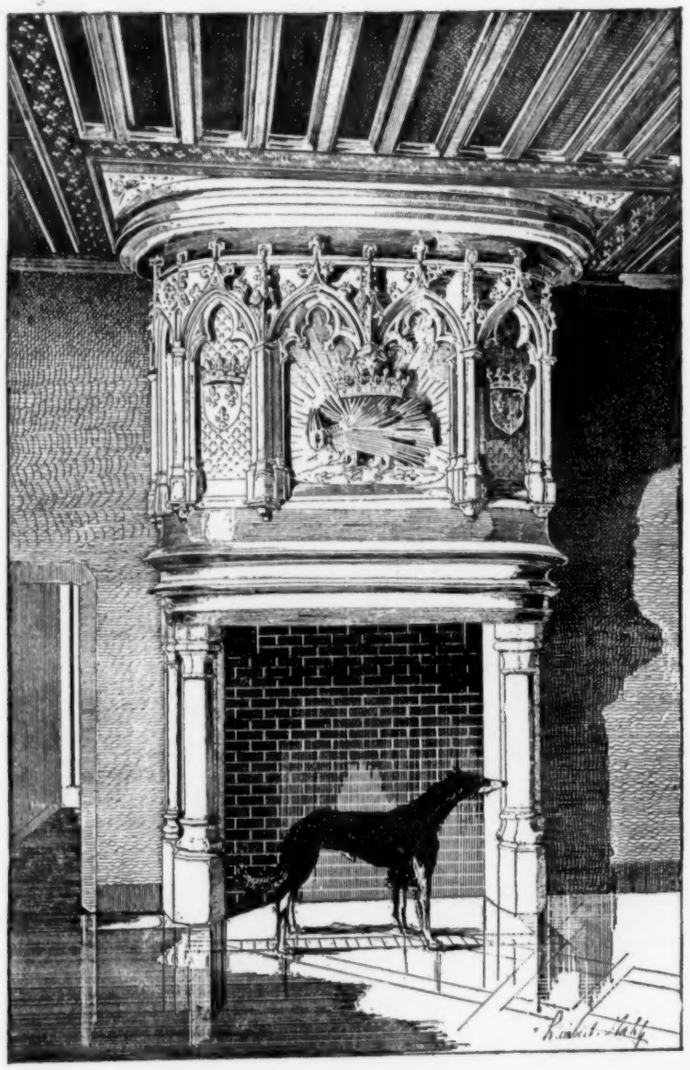

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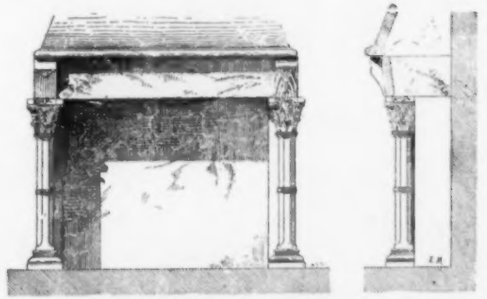

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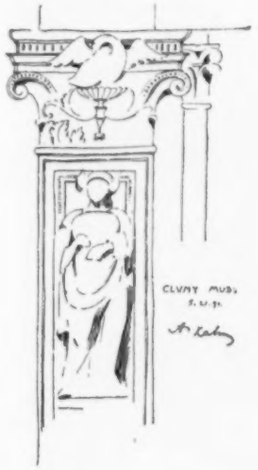

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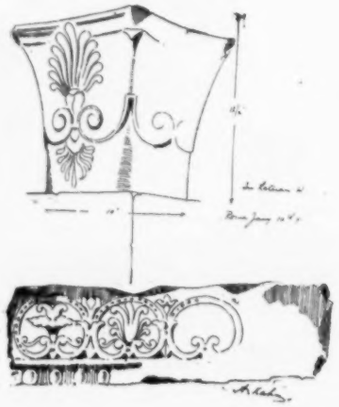

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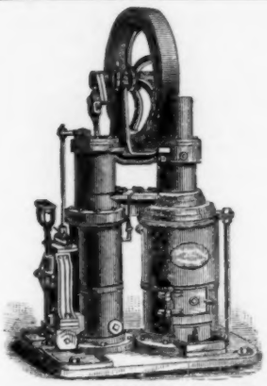

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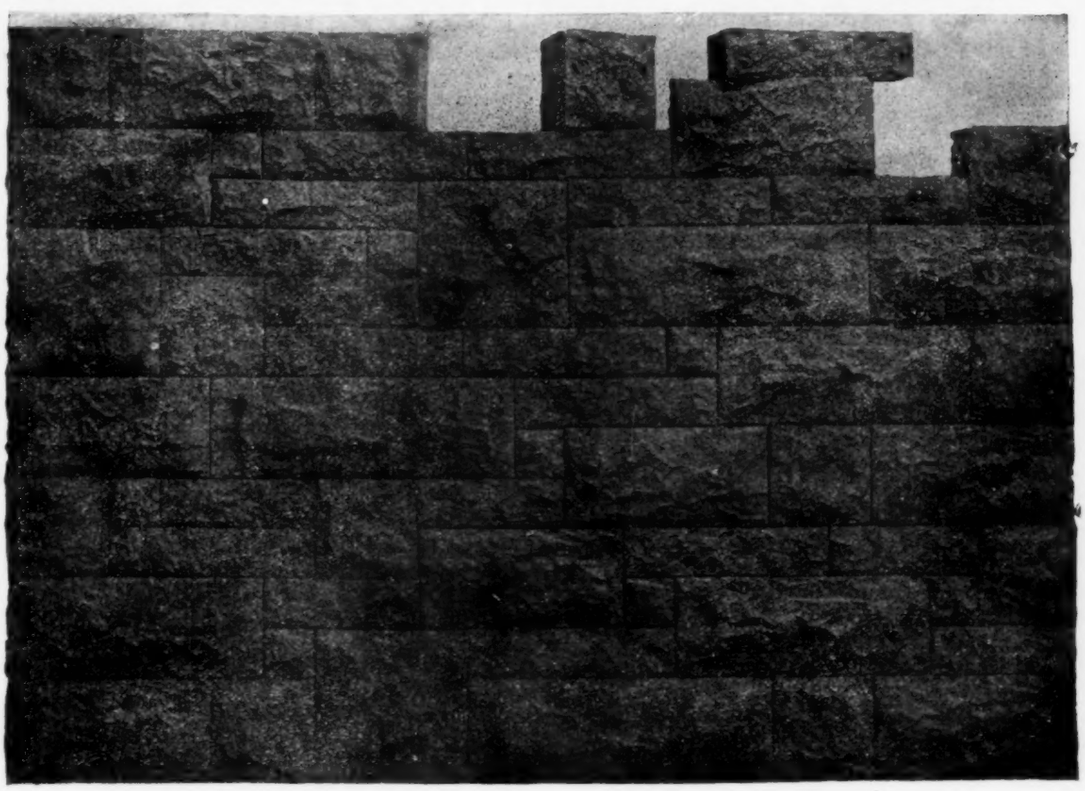

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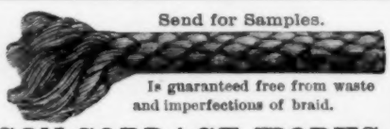

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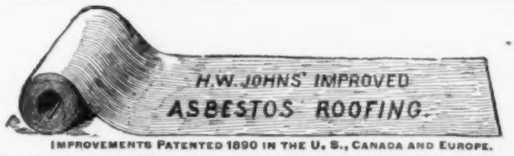

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PITTSBURGH TERRA-COTTA LUMBER CO., Pittsburgh, Pa. Terra-cotta Lumber. Page vii.

PERSPECTIVE DRAWING.

The *American Architect* Drawing-Office will undertake the preparation of perspective drawings in line or color from scale drawings, or will render drawings already in outline. Address the editors.

WANTED.

DRAUGHTSMAN.— Wanted, a first-class architectural draughtsman, perspective and design. One with knowledge of mechanical drawing preferred. State experience and salary expected. Smith & Robinson, Architects, Altoona, Pa. 867

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BUILDING PATENTS.

[*Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.*]

476,773. Elevator-Door-Operating Device. — George W. Archer, Rochester, N. Y.

476,778. Hot-Air Furnace. — Henry D. Babcock, Leonardsville, N. Y.

476,782. Implement for Veneering Lumber. —William E. Brock, Plainfield, N. J.

476,794. Heating-Drum. — Philip H. Grimm and Frank J. Williard, Ashland, Wis.

476,801. Lumber-Drying Truck. — William A. Leary, Norfolk, Va.

476,804. Sectional Steam-Boiler.—William M. Mackay, Newark, N. J.

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476,861. Operating Mechanism for Hydraulic-Elevator Valves. — Norman C. Bassett, Chicago, Ill.

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476,877. Hot-Air Furnace.— Jacob Fridley, Carlisle, Pa.

476,894. Radiator.—Ole Pederson, Aurora, Ill.

476,905. Building-Column. — Herman F. Stuhr, Cleveland, Ohio.

476,910. Door-Check. — Charles T. Wells, Ohio Falls, Ind.

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476,928. Brick-Pressing Machine.—Charles W. Raymond, Dayton, Ohio.

476,945. Burglar-Alarm. — Benjamin F. Kraft, Reading, Pa.

476,947. Fastener for the Meeting-Rails of Sashes.—Charles G. Lindskog, Salt Lake City, Utah.

476,972. Heating Apparatus for Cars or Buildings.—William C. Baker, New York, N. Y.

476,978. Shutter-Fastener. — Joseph Cabus, New York, N. Y.

477,017. Stone-Dressing Hammer. — George McDonald, Troy, N. Y.

477,032. Transom-Lifter. — Henry Weber, Chicago, Ill.

477,055. Elevator-Valve. — August Kieckhefer and George Cadman, Milwaukee, Wis.

477,099. Sash-Balance.—Amos D. Carle, Malden, Mass.

477,100. Electric Elevator. — John H. Clark, Boston, Mass.

477,103. Sash-Holder. — Lorenzo Damon, West Chester, Pa.

477,121. Automatic Temperature-Regulating System.—Warren S. Johnson, Milwaukee, Wis.

477,147. Floor or Roof for Buildings. — Geo. W. Parker, San Francisco, Cal.

477,148. Light-Transmitting Floor or Sidewalk.—George W. Parker, San Francisco, Cal.

477,155. Fireplace-Heater.— Jeremiah J. Richardson, Brooklyn, N. Y.

478,371-372. Door-Check. — John H. Shaw, New Haven, Conn.

478,373. Apparatus for Automatically Regulating Temperature.—Alexander Shiels, Glasgow, Scotland.

478,380. Speaking-Tube Exchange. — Leopold Strouse, Baltimore, Md.

478,387. Door-Spring. — Granville W. Wright, New Haven, Conn.

478,471. Sash-Pull. — Remsen Schenck, New York, N. Y.

478,486. Water-Heater.—George W. Washburn, Danbury, Conn.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING JULY 22, 1892.

From Amsterdam. — Steamer "*Dubbeldam,*" 1,000 casks cement, Morris Ebert.

From Antwerp. — Steamer "*Noordland,*" 500 barrels cement, E. E. Douglas; 3,800 do., order.

From Bremen. — Steamer "*Darmstadt,*" 2,016 casks Portland cement, order. Bark "*Singapore,*" 2,352 casks cement, Baetjer & Meyerstein; 3,980 cakes asphaltum, E. Thiele; 280 casks cement, order.

From Cazones — Schooner "*Standard,*" 478 logs cedar and mahogany, G. Amsinck & Co.

From Christiania. — Steamer "*Norge,*" 6 blocks granite, Delhi & Chamberlin.

From Gibraltar. — Bark "*F. E. Hagemeyer,*" 1 building stone, order.

See last or next issue for the following advertisements.

E. D. Albro Co.
Alsen's Cement Works.
Chrome Steel Works.
Continental Insurance Co.
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Link-Belt Engineering Co.
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See the first issue of the month for the following advertisements.

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Dubois Mfg. Co.
Esterbrook Pen Co.
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H. M. Hanson.
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J. B. Shannon & Sons.
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The following advertisements are omitted in this issue in favor of the Classified Index.

Blake Bell Co.
L. Haberstroh & Son.
Huyett & Smith Mfg. Co.
Hydraulic-Press Brick Co.
J. Miller & Bro.
New Jersey Wire Cloth Co.
N. Y. Architectural Terra-Cotta Co.
Oakley & Keating.
Passaic Rolling Mill Co.
Perth Amboy Terra-Cotta Co
Randolph & Clowes.
Smith & Egge Mfg. Co.
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Tirrill Gas-Machine Co.
Tucker & Titus.
E. Van Noorden & Co.
J. Williams.
E. H. Wootton.

IMPORTS OF BUILDING MATERIALS, Etc.

From Glasgow.— Steamer "*State of California,*" 25 blocks stone, H. P. Binswanger; 365 cases granite. Austin, Baldwin & Co.; 9 stones, G. P. Sherwood. Steamer "*Anchoria,*" 18 casks glazed bricks, order.

From Hamburg. — Steamer "*Gellert,*" 340 casks cement, E. Thiele; 1,000 barrels do., order. Steamer "*Taormina,*" 1,000 barrels cement, order. Steamer "*Bohemia,*" 81 casks cement, F. Blumenthal & Co.

From Leghorn. — Steamer "*Olympia,*" 43 blocks marble, G. Amsinck & Co.; 3 do., B. S. Eirlie; 543 slabs do., Tailer & Co.

From Liverpool. — Steamer "*Nomadic,*" 255 casks bricks, Meeker & Carter.

From London. — Steamer "*Colorado,*" 750 casks cement, order. Steamer "*Manitoba,*" 500 casks cement, Hammill & Gillespie; 3,200 casks do., order.

From San Domingo City.— Steamer "*Saginaw,*" 1 crate doors, Mecke & Co.

From Santa Cruz, Cuba. — Schooner "*Orinoco,*" 1,702 logs mahogany, order.

From Stettin. — Steamer "*Norge,*" 2,000 barrels cement, Emil Kauter; 1,000 do., order. Steamer "*Polaria,*" 1,000 barrels cement, E. Thiele; 1,000 do., 88 bags fire-cement, 9,851 fire-bricks, H. Marquardt & Co.; 6,000 barrels cement, order.

From Trinidad. — Steamer "*Burnley,*" 1,200 tons asphaltum, order.

From Windsor, N. S. — Schooner "*Edna,*" 504 tons plaster, J. F. Whitney & Co. Schooner "*Calabria,*" 820 tons plaster, J. F. Whitney & Co. Schooner "*Gypsum Princess,*" 1,204 tons lump plaster, J. F. Whitney & Co.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[*Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.*]

ALTERATIONS.

Brooklyn, N. Y. — *Concord St., Nos.* 38-40, five-st'y brick hotel, gravel roof, internal and other alterations; cost, $4,000; owner, J. R. Heward, 47 East Tenth St., New York City; architect, Randolph W. Sailer, 76 Montgomery St., Jersey City.

South Third St., s s, 100' e Berry St., three-st'y brick hospital, tin roof, one-st'y brick extension, tin roof; cost, $7,000; owner, South Third Street

(*Continued on page* xv.)

FACTS ABOUT HARD OIL FINISH.

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Hospital; architect, W. H. Gaylor, 110 South Eighth St.

Myrtle Ave., n e cor. Walworth St., four-st'y brick store and dwell., tin roof, two-st'y brick extension, tin roof, and internal alterations; cost, $3,000; owner, Henry Kuebel, Myrtle Ave. and Walworth St.; architect, Edward Van Voorhis, 903 Kent Ave.; builders, Robert E. Payne & Co., 340 Willoughby Ave.

Henry St., s w cor. Cranberry St., four-st'y brick factory, tin roof, internal and other alterations; cost, about $4,000; owners, F. Wesel Mfg. Co., 11 Spruce St., New York City; architects, Weber & Drosser, 2 Stone St., New York City.

South Oxford St., Nos. 196-200, 3 three-st'y frame dwells., tin roofs, three-st'y brick extensions, tin roofs; cost, $4,000; owner, A. Schenck, 153 South Oxford St.; architect, F. S. Benedict, 167 South Oxford St.

Hanson Place, w s, 100' n St. Felix St., one-st'y brick vestry, tin roof, present extension to be raised one story, two-st'y stone extension, tin roof, added and internal alterations made; cost, $7,000; owner, Hanson Pl. M. E. Church; architects, L. B. Valk & Son, Johnston Building.

South Fifth St., No. 117, four-st'y brick post-office and flat building, tin roof, one-st'y stone extension, gravel roof, and other alterations; cost, $5,000; owner, Estate of L. M. Palmer, 165 Broadway, New York City; architect, Edward P. York, 80 Washington St., New York City; builder, H. Toulmeier, 451 Gates Ave.

Adelphi St., No. 417, *and Fulton St., Nos.* 847-849, 3 three-st'y brick stores and dwells., tin roofs, internal and other alterations; cost, $5,000; owner, P. J. Comder, on premises; architect, Carl F. Eisenach, 59 Court St.

Myrtle Ave., n e cor. Marcy Ave., four-st'y brick store, tin roof, two-st'y brick extension, tin roof, and other alterations; cost, $3,000; owner, Henry Meyer, Marcy and Myrtle Aves.; architect, P. Herbert, 147 Broadway.

Camden, N. J. — *Washington Ave., No.* 578, alterations to dwell.; owner, R. Matlock.

Washington Ave., n e cor. Fifth St., alterations and additions to frame dwell.; owner, L. Schenck.

Marion St., No. 1139, alterations and additions to dwell.; owner, John Beck.

Cooper St., No. 603, two-st'y stone addition to dwell.; builder, D. Lummis.

Chicago, Ill. — John Keough, three-st'y addition, 3542 Parnell Ave.; cost, $3,000.

Valentine Martin, two-st'y addition, 2923 Butler St.; cost, $3,000.

John McAdams, three-st'y addition, 81 Twenty-sixth St.; cost, $3,000.

C. H. Caldwell, one-st'y addition, 319-323 Sixty-third St.; cost, $4,000.

C. Weissenstein, two-st'y addition, 1154 Sixty-third St.; cost, $3,000.

Dr. T. Bidwell, two-st'y addition, 3807-3811 Archer Ave.; cost, $3,000.

Dr. G. F. Fiske, additions and alterations, 438 La Salle Ave.; cost, $6,000.

Board of Education, addition to school-house, Yale and Seventieth Sts.

Board of Education, addition to school, 6516 Lexington Ave.

John Kelly, three-st'y addition; cost, $4,000.

W. N. Kimball, five-st'y addition to factory, Twenty-sixth and Rockwell Sts.; cost, $37,000.

Montreal, Can. — *Prince Arthur St.*, alterations to dwell.; owner, Rev. W. Sanders; architect, W. McLea Wallbank, 214 St. James St.

Dorchester St., alterations to dwell.; owner, Jos. Lorange; architect, L. R. Montbriant, 42 St. André St.

Philadelphia, Pa. — *Howard St.*, e s, n Norris St., four-st'y addition to factory; builder, Wm. Tecklenberg, 7614 Cadwallader St.

Washington Ave., s w cor. Twenty-first St., additions to brewery; builder, John O'Donnell, 1161 South Thirteenth St.

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BUILDING INTELLIGENCE.

Providence, R. I. — *Hope St.*, cor. George St., additions and alterations to brick and frame dwell.; cost, $30,000; owner, R. H. I. Goddard; builders, Norcross Bros.

Pottsville, Pa. — The contract for an annex to the Minersville Street School-house has been awarded to Adant Jennings for $3,635.

Somerville, Mass. — *Cross St.*, one-st'y addition to school-house for City of Somerville; builder, Geo. M. Starbird.

APARTMENT-HOUSES.

Boston, Mass.—*Dalton St.*, near Cambria St., Ward 19, four-st'y brick apartments, flat roofs, 39' x 72'; owner, J. B. Wilbur; builder, W. L. Rutan.

Blue Hill Ave., cor. Holborn St., Ward 21, four-st'y brick apartments, flat roofs, 49' x 53'; owners and builders, O'Toole & Vose.

Chicago, Ill. — Patrick F. Flynn, 2 four-st'y flats, 455-457 North Ave.; cost, $12,000.

F. F. Bullan, two-st'y flats, 1015 Warren Ave.; cost, $8,000.

Charles Anderson, three-st'y flats, 550 Forty-sixth St.; cost, $8,000.

George M. Balling, two-st'y flats, 5422 Jackson Boulevard; cost, $3,000.

Meyer Lenar, 2 three-st'y flats, 6616-6618 Sheridan St.; cost, $13,000.

Thomas Lenpac, three-st'y flats, 259 Washbourne Ave.; cost, $6,000.

J. Martison, two-st'y flats, 820 Sixty-seventh St.; cost, $4,000.

James Mowatt, 2 two-st'y flats, 238-240 Sixty-seventh St.; cost, $12,500.

H. F. Hughes, three-st'y flats, 6809 Wabash Ave.; cost, $6,000.

John Haver, three-st'y flats, 1269 Hinman St.; cost, $3,200.

J. J. Hackett, two-st'y flats, 882 Walnut St.; cost, $5,000.

John Orlander, 2 three-st'y flats, 25-27 Pleasant St.; cost, $12,000.

B. Johnson, 6 three-st'y flats, 6509-6521 Ellis Ave.; cost, $45,000.

Frank Christ, two-st'y flats, 1099 Albany Ave.; cost, $6,000.

Patrick Fox, four-st'y flats, 44 Hill St.; cost, $4,500.

O. H. Peterson, two-st'y flats, 770 Tilman Ave.; cost, $3,500.

John Taylor, three-st'y flats, 4325 Forest Ave.; cost, $4,000.

Michael O'Holron, three-st'y flats, 8903 Buffalo Ave.; cost, $3,500.

Oscar A. Anderson, 2 three-st'y flats, 4239-4241 St. Laurence Ave.; cost, $10,000.

P. R. Rondolph, two-st'y flats, 2015 Emerald Ave.; cost, $5,000.

George A. Williams, 5 four-st'y flats, 2257 South Park Ave.; cost, $40,000.

Edward Kripski, two-st'y flats, 1010 Hinman Ave.; cost, $3,000.

C. Heine, two-st'y flats, 1320 Wrightwood Ave.; cost, $4,000.

Louis Griednitz, three-st'y flats, 1127 South Oakley Ave.; cost, $4,500.

John Long, two-st'y flats, 2934 Main St.; cost, $3,500.

L. D. Robertson, two-st'y flats, 6819-6821 May St.; cost, $8,000.

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John Nilson, three-st'y flats, 420 Forty-first St.; cost, $9,000.

William Lentz, two-st'y flats, 3134 Ullman St.; cost, $4,000.

William Lewerenz, three-st'y flats, 282 Augusta St.; cost, $5,000.

John Hones, two-st'y flats, 1375 West Polk St.; cost, $3,000.

Carl Legatyki, three-st'y flats, 6427 Peoria St.; cost, $3,400.

G. Y. S. Best, 2 three-st'y flats and school, 337-339 Hampton Ave.; cost, $20,000.

R. McKey, four-st'y flats, 5100-5102 Hibbard Ave.; cost, $25,000.

Frank G. Gustafson, 4 three-st'y flats, 7714-7716 Evans Ave.; cost, $20,000.

C. T. Schepper, two-st'y flats, 4418 Ellis Ave.; cost, $10,000.

John Trojanowskiego, three-st'y flats, 806 Dickson St.; cost, $6,500.

Louisa Kaiser, three-st'y flats, 350 Laflin St.; cost, $5 000.

Merritt W. Thompson, 2 three-st'y flats and barn, 683-685 North Robey St.; cost, $15,000.

Frank Furgeson, three-st'y flats, 868 Walnut St.; cost, $6,000.

Fred Brinkman, two-st'y flats, 6220 Green St.; cost, $25,000.

M. Marinbaum, three-st'y flats, 61 Judd St.; cost, $7,000.

Ernest W. Smith, three-st'y flats, 8946-8949 Green Bay Ave.; cost, $19,000.

G. A. Hilton, two-st'y flats, 1047 Sheffield St.; cost, $3,000.

James A. Miller, 2 three-st'y flats, 5515 Woodlawn Ave.; cost, $30,000.

J. M. Hanchett, 2 three-st'y flats, Fiftieth Ct. and Evans Ave.; cost, $20,000.

S. M. Millard, four-st'y flats, 4201 Evans Ave.; cost, $16,000.

William G. Mann, two-st'y flats, 1237 Newport Ave.; cost, $3,000.

J. C. Collins, 2 three-st'y flats, 7128-7130 Woodlawn Ave.; cost, $4,200.

H. M. Tohms, 2 three-st'y flats, 5800-5802 Jackson Ave.; cost, $23,000.

A. P. Caldwell, 2 three-st'y flats, State and Fifty-sixth Sts.; cost, $16,000.

Robert Studor, 5 two-st'y flats, 7836-7844 Emerald Ave.; cost, $15,000.

Jacob Aaron, two-st'y flats, 811-813 Lincoln Ave.; cost, $5,500.

Stella Keith, 2 three-st'y flats, 49 51 University Pl.; cost, $10,000.

Ole Trusterd, two-st'y flats, 742 Rockwell St.; cost, $3,480.

Matilda Johnson, 2 two-st'y flats, 1684-1686 Dempster Pl.; cost, $12,000.

Mary Theisings, two-st'y flats, 1683 Berry St.; cost, $5,000.

John A. Richards, three-st'y flats, 1498 Monroe St.; cost, $5,500.

E. A. Peterson, three-st'y flats, 577-579 Seminary Ave.; cost, $10,000.

R. Rynestson, three-st'y flats, 12 Marion Pl.; cost, $4,500.

W. M. Terriberry, two-st'y flats, 1531 West Monroe St.; cost, $6,000.

A. Carlson, two-st'y flats, 6814 Carpenter St.; cost, $4,000.

John Schning, two-st'y flats, 1446 Fifty-first St.; cost, $25,000.

Anton Noelch, 2 three-st'y flats and barn, 1745-1747 Halsted St.; cost, $10,000.

Fred Bleihz, two-st'y flats, 3348 Auburn Ave.; cost, $3,000.

Olson & Engwick, three-st'y flats, 619 Washtenaw St.; cost, $6,000.

S. J. Payne, 2 two-st'y flats, 7130-7132 Wentworth Ave.; cost, $7,000.

E. Lord, 2 two-st'y flats, 9819-9821 Avenue J; cost, $6,000.

John Carmody, two-st'y flats and shop, 92 Belmont Ave.; cost, $3,500.

Minneapolis, Minn. — F. J. Linne, three-st'y brick veneered flats, 734-36-38-40 East Sixteenth St.; cost, $24,000.

BUILDING INTELLIGENCE.

New York, N. Y. — *Eighty-seventh St.*, n s, 174' e Avenue A, 4 five-st'y brick flats, tin roofs; cost, $120,000; owner, George Schreimer, 104 West One Hundred and Twenty-first St.; architect, John Hauser, 1441 Third Ave.

East Eighty-eighth St., No. 411, five-st'y brick flat, tin roof; cost, $19,000; owner, Thomas Frawley, 402 East Eighty-eighth St.; architect, John C. Burne, 101 West Forty-second St.

Madison Ave., n e cor. One Hundred and Seventeenth St., 3 five-st'y brick flats, tin roofs; cost, $90,000; owner, Tillie E. Smith, 103 East Eighty-sixth St.; architect, A. F. Leicht, 62 Liberty St.

West Thirty-third St., No. 427, five-st'y brick flat, tin roof; cost, $18,000; owner, James Curran, 427 West Thirty-third St.; architect, Julius Munkowitz, 247 West One Hundred and Twenty-fifth St.

Eighth Ave., e s, 25 11" s One Hundred and Thirteenth St., 3 five-st'y brick flats, tin roofs; cost, $54,000; owner, Frank Leimeinster, 301 East One Hundred and Second St.; architect, J. H. Valentine, One Hundred and Twenty-first St. and St. Nicholas Ave.

Hudson St., s w cor. Perry St., five-st'y brick flat, tin roof; cost, $30,000; owner, Wm. H. Ramsey, 14 West Sixtieth St.; architect, M. V. B. Ferdon, 265 West Thirty-fourth St.

East Twenty-sixth St., No. 306, five-st'y brick flat, tin roof; cost, $24,000; owners, Williams & Jones, 154 East Twenty-seventh St.; architect, Charles Rentz, 153 Fourth Ave.

Eighty-seventh St, n s, 274' e Avenue A, 2 five-st'y brick flats, tin roofs; cost, $72,000; owner, Joseph Schreimer, 110 West One Hundred and Twenty-first St.; architect, John Hauser, 1441 Third Ave.

Columbus Ave., s e cor. Sixty-ninth St., 3 five-st'y brick flats, tin roofs; cost, $140,000; owner, Edward Kilpatrick, 660 West End Ave.; architect, G. A. Schellinger, 128 Broadway.

First Ave., e s, 25' 5" s Forty-eighth St., five-st'y brick flat, tin roof; cost, $20,000; owner, Mrs. L. A. Miller, 305 President St., Brooklyn; architects, Kirby & Co., 722 Tremont Ave.

Columbus Ave., s e cor. Sixty-ninth St., 3 five-st'y brick flats, tin roofs; cost, $140,000; owner, Edward Kilpatrick, 660 West End Ave.; architect, G. A. Schellinger, 128 Broadway.

First Ave., e s, 25' 5" s Forty-eighth St., five-st'y brick flat, tin roof; cost, $20,000; owner, Mrs. L. A. Miller, 305 President St., Brooklyn; architects, Kirby & Co., 722 Tremont Ave.

Sixth Ave., s w cor. Fifty-seventh St., five-st'y brick flat, tin roof; cost, $45,000; owner, Robert Ballantine, Trout St., Newark, N. J.; architects, Thom & Wilson, 1267 Broadway.

Margin St., w s, 70' 11" s Stanton St., 2 five-st'y brick flats, tin roofs; cost, $36,000; owner, Martin E. Stevens, 608 West Fourteenth St.; architect, J. J. Vreeland, 711½ One Hundred and Seventy-seventh St.

One Hundred and Tenth St., s s, 169' e Fifth Ave., 3 five-st'y brick flats, tin roofs; cost, $60,000; owner, Mrs. Ida M. Hamilton, 92 Edgecomb Ave.; architect, George H. Griebel, 247 West One Hundred and Twenty-fifth St.

East One Hundred and Thirteenth St., No. 418, five-st'y brick flat; owners, Mrs. A. C. Brou and Mary A. Geraghty; architects, Neville & Bagge.

Columbia St., Nos. 121 and 123, 2 five-st'y flats; cost, $48,000; owners, Fay & Stacom; architect, Charles Rentz.

Fifth Ave., n e cor. One Hundred and Fourteenth St., semi-fireproof apartment-house; cost, $75,000; owner, Simon Peyser.

West Twentieth St., No. 20, five-st'y brick flat, tin roof; cost, $18,000; owner, Michael H. Gillespie, Ninety-eighth St. and Sixth Ave.; architect, G. Fred Pelham, 1481 Broadway.

Columbia St., Nos. 121-123, 2 five-st'y brick flats, tin roofs; cost, $48,000; owners, Fay & Stacom, 337 Pleasant Ave.; architect, Charles Rents, 153 Fourth Ave.

East One Hundred and Thirteenth St., No. 418, five-st'y brick flat, tin roof; cost, $20,000; owners, Marg. F. Geraghty and Anna A. Brew, 116 East Eighty-fifth St.; architects, Neville & Bagge, 250 West One Hundred and Twenty-fifth St.

One Hundred and Thirteenth St., s e cor. Eighth Ave., five-st'y brick flat, tin roof; cost, $24,000; owner, F. Leimeister, 301 East One Hundred and Second St.; architect, J. H. Valentine, One Hundred and Twenty-first St. and St. Nicholas Ave.

Lenox Ave., w s, 24' 11" n One Hundred and Twenty-eighth St., 3 five-st'y brick flats, tin roofs; cost, $16,000; owner, John Frame, 206 East Seventieth St.; architects, Thom & Wilson, 1167 Broadway.

Lenox Ave., n w cor. One Hundred and Twenty-eighth St., five-st'y brick flat, tin roof; cost, $22,000; owner, John Frame, 216 East Seventieth St.; architects, Thom & Wilson, 1267 Broadway.

One Hundred and Tenth St., s s, 150' e Fifth Ave., five-st'y brick flat, tin roof; cost, $18,000; owner, Mrs. Ida M. Hamilton, 92 Edgecomb Ave.; architect, George H. Griebel, 247 West One Hundred and Twenty-fifth St.

St. Louis, Mo. — Two-st'y brick flat; cost, $3,200; owner, Flint Williams; contractor, Denger.

Two adj. two-st'y brick flats; cost, $4,500; owner and contractor, Chas. Miller.

Six adj. two-st'y brick flats: cost, $12,000; owner, A. D. Cooper; contractor, J B. Birkner.

CHURCHES.

Chicago, Ill.— First Baptist Church, church, 776-778 Tolman St.; cost, $7,000.

Swedish Evang. Lutheran Church, church, 185 Baxter Ave.; cost, $6,000.

Cincinnati, O. — St. Henry Church congregation, brick and stone church, Flint St.; cost, $9,000; architects, G. & A. Brink.

German Protestant Cemetery Association, brick and stone church and vault; cost, $4,700; architect, E. J. Reuckert.

Immanuel Baptist Church, one-st'y brick and stone church, cor. Hamilton and Pullman Sts.; cost, $7,200; architect, James McLaughlin.

Jamaica Plain, Mass. — Frame church; for Centre St. Baptist Society; architects, Lewis & Paine, Boston.

New York, N. Y. — *Boulevard*, s e cor. Seventy-first St., brick chapel; cost, abt. $25,000; owner, Church of the Blessed Sacrament; architect, Joseph H. McGuire.

St. Henry of Montreal, Can. — Roman Catholic Church; cost, $75,000; architect, J. H. MacDuff, cor. Notre Dame and Seigneurs Sts., Montreal, Can.

FACTORIES.

Boston, Mass. — *Haverhill St., No.* 95, Ward 7, six-st'y brick factory and store, flat roof, 60' x 75'; ownel and builder, C. E. Hall.

East First St., bet. E and F Sts., Ward 13, three-st'y frame factory, flat roof, 75' x 400'; owner, Ira L. Moore; builders, H. S. & N. Clark.

Brooklyn, N. Y. — *Gwinnett St.*, n s, near Marcy Ave., Edison brick electric light factory; cost,

(*Continued on page* xxii.)

THE following Report by Prof. J. S. Newberry, Professor of Geology and Paleontology in the Columbia College School of Mines, in which he has established a museum of 100,000 specimens of rare value, should be given due weight as being the opinion of the highest living authority upon the subject of which he writes.

Dr. Newberry was born in Windsor, Ct., December 23, 1822. He graduated from Western Reserve College in 1846, and from the Cleveland Medical College in 1848, spent two years in study abroad, and then began the practice of medicine in Cleveland, where he remained until 1855.

During this year he was appointed acting Assistant-Surgeon and Geologist to the party, which under Lieut. Robert S. Williamson, explored the country between San Francisco and the Columbia River. He assisted Lieut. Joseph C. Ives in the exploration of the Colorado River, and was with Capt. John N. Macomb, on the San Juan and Upper Colorado Rivers. In 1859 Prof. Newberry travelled over the plains of Southern Colorado, Utah, Northern Arizona and New Mexico.

In 1866 Prof. Newberry was elected Professor of Geology and Paleontology in the Columbia College School of Mines. In 1869 he was appointed State Geologist of Ohio.

Seven years ago he was appointed paleontologist to the United States Geological Survey, having charge of the investigation of fossils, botany and fishes. Western Reserve College conferred the degree of LL. D. upon him in 1867. In 1888 the Geological Society of London presented him with the Murchison gold medal. He is a member of the Scientific Societies of America and Europe, was named by Congress one of the corporate members of the National Academy of Science, has been President of the American Association for the Advancement of Science, and of the New York Academy of Science since 1867, and is President of the Torrey Botanical Club.

Dr. Newberry is the author of more than two hundred titles, and stands in the front rank of the mining experts of the world.

The Potsdam Sandstone from the quarries of the Potsdam Red Sandstone Company, has been used so extensively by builders of the United States and Canada, and its reputation is so well established, that it might seem that no further word was needed on this subject. It has been under my observation for many years in the public buildings at Ottawa, Canada, and elsewhere, and more particularly in the recently constructed buildings of Columbia College, New York. I had subjected the stone used at Columbia to microscopic observation, chemical analysis and physical tests, at the time when the choice of stone was under consideration by our architect. From these experiments I had learned as I supposed all that it was necessary to know about the stone, viz: that it was a dark red banded sandstone, having a resistance to a crushing force of 17,000 to 18,000 pounds per square inch; that it consisted of silica with a slight ingredient of iron, from which it took its color, and preferable so far as strength, homogeneousness and durability were concerned to any other sandstone known to me. I therefore unhesitatingly recommended its use, and I have never since had occasion to change my mind in regard to its superiority. Still, when I went over the ground and examined the stone in place, and noticed the marked difference in the stone of the different quarries of this company, and especially when I had subjected a new series of specimens to tests for physical strength, I found that I had much to learn in regard to its variety and excellence.

In the first place I discovered that instead of one, there are at least three marked varieties of this stone, possessing different degrees of strength and shades of color, affording to the architect a means of securing a range of effects, when used either singly or in combination. Also, that the stone which we had used at Columbia, though possessing greater strength than any sandstone submitted to trial, was far surpassed in this respect by some of the other varieties attainable, and that the strongest not only exceeded in strength all other varieties of stone tested at the School of Mines, but even resisted the full crushing force of the powerful Emery testing-machine, which we have recently had constructed, and which was supposed to be capable of reducing to powder any building stone submitted to its action. The resistance to crushing force in the specimens tested, varied from 18,401 pounds to the square inch to 42,804, or rather to and beyond the extreme crushing force of our machine; for it was found impossible to overcome with the machine the resistance of two inch cubes of the strongest stone, although the pressure was carried up to 151,000 pounds. Hence we can say that the resistance to crushing force, of the strongest variety, exceeds 42,000 pounds to the square inch, a result greater than we have obtained from tests on granite of any kind, from trap or any other variety of building stone.

The element of beauty is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C.

As I have said, I was surprised to find in the different quarries of this Company so many varieties of color in the stone. In the west quarries, the typical "Red Potsdam," either plain or banded, prevails. On their southern tracts are outcrops of homogeneous and monochrome, chocolate-colored stone in heavy ledges, which will yield blocks of any desired size, while in their quarries on the east side are exposed about fifty feet of rather massive layers, separated by a band of fifteen feet of foundation orbri dge stone. The upper and lower bands composing the fifty feet referred to, are mainly of light colored homogeneous stone, to which I was a stranger before visiting the quarries. This is of a reddish cream-color, very uniform in tint and pleasing to the eye. It comes out in layers from two to six feet in thickness and splits with ease and certainty in any direction. With the chocolate-colored stone, to which reference has been made it may be combined with fine effect, one variety being used for trimming to the other, as corner stones, door and window caps, porches, etc., or associated as block stones in plain walls.

This cream-colored variety works with comparative ease, and may be wrought into moulding and ornaments, much more cheaply than the harder varieties, which will be best used when hammer dressed, a style of treatment to which every phase of the stone will lend itself, as it breaks true and even under the hammer.

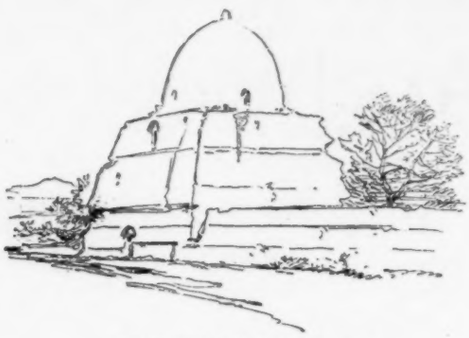
The different tracts of land controlled by this Company comprise about two hundred acres, distributed for about a mile up and down Racquette river, and selected with judgment so as to embrace the best outcrops of stones found in the district. On all these tracts the Potsdam sandstone is practically the surface rock, being covered only with a layer of greater or less thickness of boulder clay. In quantity, therefore, the quarries are practically inexhaustible, and it is not too much to say that they may be worked for centuries without embarrassment.

J. S. NEWBERRY.

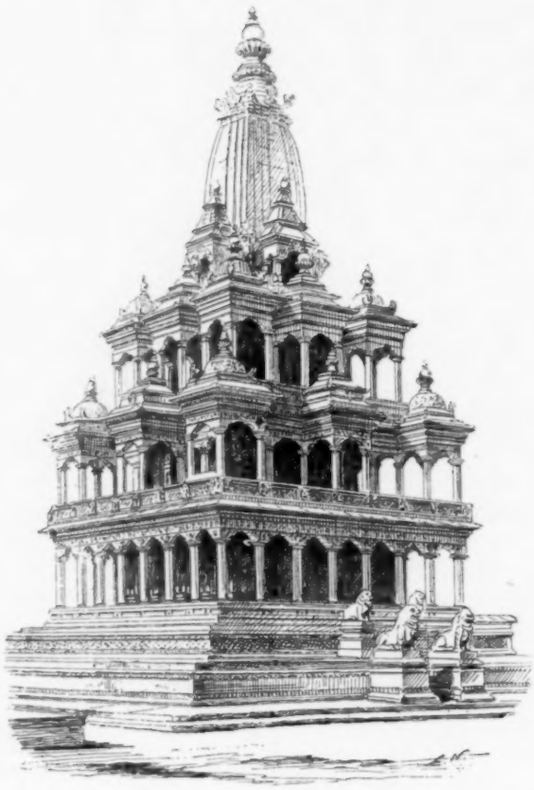
The stone from the quarries of this Company is unexcelled for beauty of color and effect. As the only way that architects can get an idea of the color of the stone is by inspection of a sample, we shall be glad to forward samples and full information to architects who may apply for the same.

POTSDAM RED SANDSTONE CO.,

POTSDAM, N. Y.

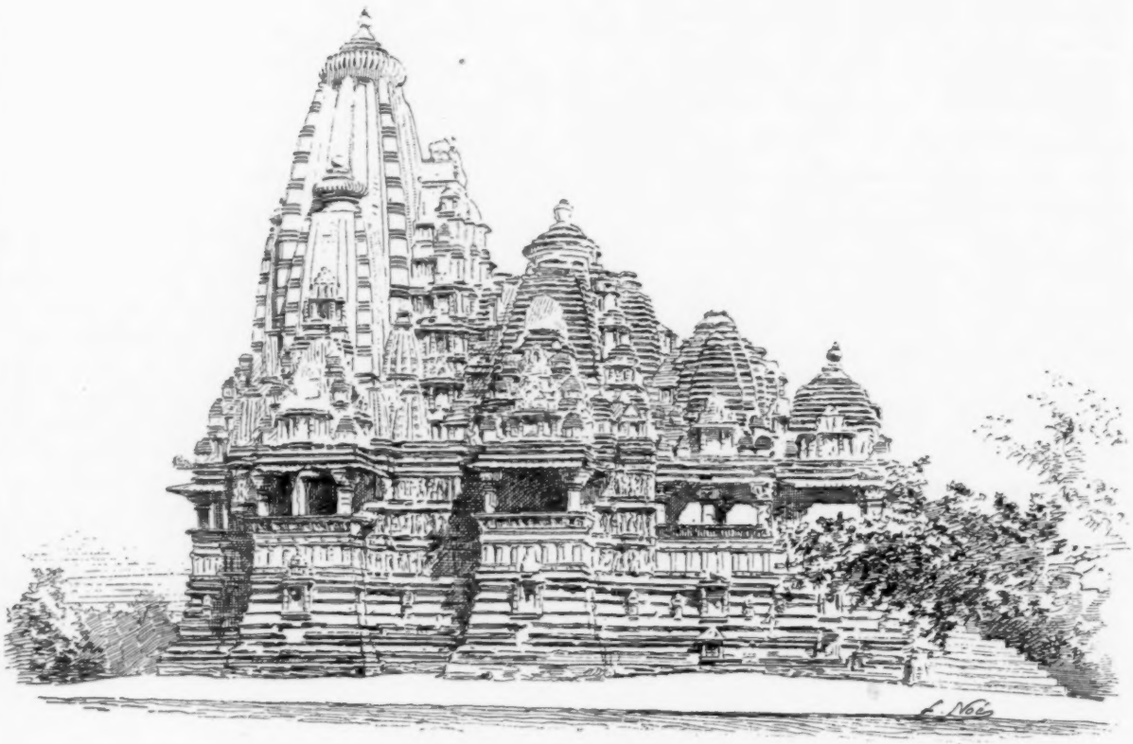


Persian Tomb with a Mud Dome.



Temple of Potan [XVII Century].

Gopura of the Temple of Conjeveram [XV Century].



Kandariya Temple, Khajuraho [IX Century].

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A RECENT discussion in the *American Architect* has directed attention to the prevailing practice among architects of filing in boxes, portfolios, or otherwise, their collections of plates and illustrations according to some system of classification which would make them accessible for practical and daily use. Some classify by styles, some by topical arrangement, some by countries, others by authors; but for Americans, practical and eclectic in their work, the topical method of architectural arrangements is generally conceded to be the most useful.

The knowledge of this custom among architects has induced Messrs. Ticknor & Company to offer their new

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Of course the whole cycle of architectural illustrations cannot be shown in one thousand plates, nor would it be judicious for a publisher of any such collection to assert that he had gathered together the best thousand subjects that could possibly be found. The value of such a work lies in its applicability to daily needs; and as daily needs not only vary day by day, but change with different consumers, such a work as this must, in the nature of things, be heterogeneous to a certain extent and so lack something of completeness in its parts; but if it only be catholic in its range and defensible in the matters of taste and style, the just demands and expectations of the purchaser may be held to have been satisfied. These three factors have had due consideration in this collection.

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$8,000; owner, Edison Electric Illuminating Co., Pearl St., near Myrtle St.; architect, Charles H. Thompson, Pearl St., near Myrtle St.

Chicago, Ill.— Andrew C. Lanster, one-st'y factory, 70-80 Pratt St.; cost, $5,000.

Cincinnati, O. — The Wm. Powell Co., 2 three-st'y brick and stone factories, Spring Grove Ave.; cost, $20,000; architects, Crapsey & Brown.

The Wm. Powell Co., two-st'y frame factory, Spring Grove Ave.; cost, $6,000; architects, Crapsey & Brown.

The Rhuel Mfg. Co., brick and stone foundation for factory, Eighth St.; cost, $3,500; architect, A. O. Elsner.

New York, N. Y.—*Boulevard*, s e cor. Seventy-sixth St., carriage factory and repository; owner, George Meyer.

HOTELS.

Chicago, Ill.—Columbian Visitors Association, four-st'y hotel, 7266 Bond Ave.; cost, $20,000.

A. B. Camp, four-st'y hotel, 6106-6114 Ellis Ave.; cost, $25,000.

HOUSES.

Auburndale, Mass. — Frame dwell., 40.9′ x 53.1′; owner, Mrs. M. H. Van Wagener; architects, Lewis & Paine, Boston; contract to be let.

Boston, Mass. — *East Lenox St., No.* 103, Ward 20, three-st'y brick dwell., flat roof, 20′ x 38′; owner, Caroline D. Jewett; builder, N. M. Jewett.

Norfolk St., near Ballou Place, Ward 24, two frame dwells., 21.6′ x 49′; owner, D. B. Maclory; builders, Whittaker & Gerrish.

Lucas St., cor. Hill St., Ward 25, frame dwell., 28′ x 58.6′; owner, Rufus Jacques; builder, Otis Gately.

North Cambridge, Mass. — *Lambert Ave.*, double frame dwell., 41′ x 54′; owner, F. Pelkey; builder, F. H. Davis; architect, J. F. Eaton, Boston.

Philadelphia, Pa. — *Manayunk Ave.*, w s, s Martin St., three-st'y brick dwell.; owner, James O. Holgate, Jamestown Ave.

D St., e s, n Indiana St., two-st'y brick dwell.; builder, James Connor, 2062 Auburn St.

Hancock St., e s, n Somerset St., 32 two-st'y brick brownstone dwells.; contractor, T. W. Smaltz, 1545 Hutchinson St.

Germantown Ave., e s, n Dauphin St., 5 three-st'y brick dwells.; builder, J. B. Vanderslice, 544 Tioga St.

Somerset St., n s, e Hancock St., 6 two-st'y brick dwells.; owner, T. W. Smaltz, 1545 Hutchinson St.

Comly St., w s, n Jackson St., two-st'y brick dwell.; builder, Robert E. Kline, cor. Comly and Torresdale Sts.

Tacony St., w s, e Margaretta St., three-st'y brick dwell.; builder, Thomas Waters, 4587 Melrose St.

West Twenty-seventh St., No. 1515, three-st'y brick dwell.; builder, Charles D. Hill, 1511 West Twenty-seventh St.

Twentieth St., e s, s Moore St., two-st'y brick dwell.; owner, Hugh Todd, 1803 South Twentieth St.

Stafford St., s s, w Morris St., 4 three-st'y brick dwells.; owner, D. P. Brunner, 4820 Morris St.

Providence, R. I. — *Governor St.*, w s, near Angell St., two-and-one-half-st'y frame dwell.; owner, R. & H. B. Gardner, trustees; architects, Stone, Carpenter & Willson; builders, H. L. Bassett & Co.

Buckley St., n e cor. Broad St., two-and-one half-st'y frame dwell.; owner, Jas. H. Hagen; builder, Jas. H. Canning.

Greenwich St., w s, near Earl St., two-and-one-half-st'y frame dwell.; owner, Chas. W. Day; architects, Gould & Angell; builder, Robert Paterson.

Brown St., s e cor. Meeting St., two-and-one-half-st'y frame dwell.; owner, Mary E. Knowles; architect, Howard K. Hilton.

Roxbury, Mass.—Double and single dwell.; for Geo. W. Gregory; architects, Lewis & Paine, Boston.

Somerville, Mass. — *Winslow Ave.*, cor. Grove St., frame dwell., 32′ x 51.4′; owner, Josiah H. Smith; builder, Clarence Hunter.

Robinson St., frame dwell., 31.6′ x 47′; owner, E. G. Humphrey; builder, Alex. McKenzie.

Highland Ave., near Benton Ave., two frame dwells, each 25′ x 36.6′; owners, Rand & Gould; builders, Belding Bros.

Elmwood St., frame dwell., 20′ x 28′; owner and builder, John F. Cullin.

Perkins St., near Mt. Vernon St., three-st'y frame dwell. and store, flat roof, 31′ x 42′; owner, James Rawson; builders, Tuttle Bros.

Professors Row, frame dwell., 32′ x 40′, with L 15′ x 20′; owner, Wm. L. Hooper.

Waltham, Mass. — *Sharon St.*, frame dwell., 36′ x 55′; owner, W. A. Folsom, agent; builder, W. Ballantyne; architect, J. F. Eaton, Boston.

Westboro, Mass.—*Main St.*, two-st'y frame dwell.; owner, Charles Allars; architect, J. P. Kingston, Worcester, Mass.; contract not let.

Wollaston, Mass. — *Main St.*, one-and-one-half-st'y frame cottage; owner and contractor, T. H. Kingston; architect, J. P. Kingston, Worcester, Mass.

Main St., two-st'y frame dwell.; owner, H. C. Beale; contractor, T. H. Kingston; architect, J. P. Kingston, Worcester, Mass.

Worcester, Mass. — *Alvarado Ave.*, two-st'y frame dwell.; owners and contractors, Ward & Blanding.

OFFICE-BUILDINGS.

New York, N. Y. — *Broadway*, n w cor. Duane St., fourteen-st'y brick office-building, asphalt, brick arch roof; cost, $730,000; owner, Wm. G. Weld, Newport; architect, Wm. H. Hume, 1 and 3 Union Square.

SCHOOL-HOUSES.

Boston, Mass. — *Perkins St.*, near Centre St., Ward 22, three-st'y brick kindergarten, hip roof, 45′ x 80′; owner, Perkins Institute; builder, James Smith.

Centreville, Md. — Queen Anne County will probably build a school, to cost $10,000.

Chicago, Ill.—St. Victor Normal Institute, four-st'y school building, Belmont and Crawford Aves.; cost, $50,000.

Glassboro, N. J. — School-house; cost, abt. $18,000; architects, Messrs. Moses & King, 431 Walnut St., Philadelphia, Pa.

Meshoppen, Pa. — Graded school building will shortly be built.

New Paris, Pa. — Contract for the Valley School-house has been given to R. C. Smith.

George W. Blackburn has received contract for building of a new school-house.

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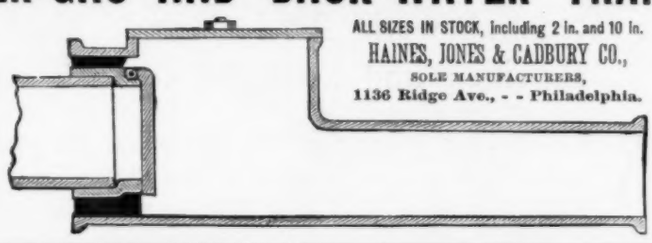

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Sharpsville, Pa. — Public school-house; cost, abt. $20,000.

St. Louis, Mo. — Two-st'y brick school; cost, $3,250; owner, Lutheran Congregation; contractors, Thulke Bros.

Westboro, Mass. — Three-st'y frame Lyman School for boys; superintendent, Mr. Chapin; owner, State of Mass.; architect, J. P. Kingston, Worcester, Mass.; day work.

STABLES.

Camden, N. J.—*Kaighn Ave., No.* 1244, *rear*, one-st'y frame stable; owner, Jacob Smith, 1244 Kaighn Ave.

Melrose, Mass. — *Border St.*, frame stable, 30′ x 50′; owner, E. H. Moore; architects, Lewis & Paine, Boston.

New York, N. Y.—*One Hundred and Thirty-first St.*, n s, 91′ e Broadway, two-st'y brick stable, tin roof; cost, $15,000; owner, Timothy J. O'Connell, 529 West One Hundred and Thirty-first St.; architect, Charles Sidney, 250 West One Hundred and Twenty-fifth St.

West Fourteenth St., Nos. 443 to 447, *West Fifteenth St., Nos.* 438 to 442, three-st'y stable, truss, slate roof; cost, $90,000; owner, N. Y. Biscuit Co., 78 and 90 Tenth Ave.; architect, Thomas R. Jackson, 274 Ninth Ave.

West End Ave., w s, 20′ 5″ n Sixty-ninth St., six-st'y brick stable, tin roof; cost, $38,000; owner, Edward Kilpatrick; architects, D. & J. Jardine, 1262 Broadway.

Somerville, Mass.—*Jaques St., No.* 69, frame stable, 30′ x 45′; owner, Cornelius Murphy; builder, A. C. Clark.

St. Louis, Mo. — Two-st'y brick livery stable; cost, $3,800; owner, M. Mueller; contractor, L. T. Rushin.

Worcester, Mass. — *Southbridge St.*, one-and-one-half-st'y frame stable; owner, Geo. S. Scott; contractor, P. Casey.

Windsor St., one-and-one-half-st'y frame stable; owner, P. F. Maguinnes; contractors, Beaillieu & Bebeau.

STORES.

Boston, Mass.—*Hamilton Pl., Nos.* 5 and 6, Ward 10, six-st'y brick and stone store, flat roof, 70′ x 72′; owner, J. C. Phillips; agent, C. U. Cotting; builders, L. P. Soule & Son.

Brooklyn, N. Y. — *Fort Green Pl., Nos.* 182-184, three-st'y brick store, gravel and cooper roof; cost, $14,000; owners, G. F. & E. C. Swift, 105 Barclay St.; architect, J. G. Glover, 186 Remsen St.

Central Ave., w s, cor. Eldert and Covert St., and *Eldert St.*, s w cor. Covert St., 2 three-st'y frame stores and dwells., tin roofs; cost, $5,000; owners, architects and builders, L. J. Lippmann & Co., 143 Weirfield St.

Myrtle Ave., s s, 80′ 3″ e Willoughby Ave., three-st'y frame store and dwell., tin roof; cost, $4,800; owner, Joseph G. Wischerth, 996 Broadway; architect, Adam Wischerth, 57 Troutman St.

George St., s s, 250′ e Central Ave., 2 three-st'y frame stores and dwells., tin roofs; cost, $4,800 each; owner, Gotwald Jacob, 37 Forrest St.; architect, Th. Engelhardt, 905 Broadway.

Bedford Ave., w s, 55′ n South Fifth St., one-st'y brick store, gravel roof; cost, $3,000; owner, estate L. N. Palmer, 165 Broadway, New York; architect, E. P. York, 80 Washington St., New York; builder, H. Toulmeier, 451 Gates Ave.

Buffalo Ave., n e cor. Dean St., three-st'y frame store and dwell., tin roof; cost, $6,000; owner and builder, Walter Cosins, 50 Bleecker St.; architect, H. Vollweiler, 483 Hart St.

Lorimer St., s w cor. Conselyea St., three-st'y frame store and dwell., tin roof; cost, $6,500; owner, H. Brode, 286 Central Ave.; architect, A. Berckmeier, 101 Ralph Ave.

Thirty-sixth St., n s, 128′ w Fifth Ave., 5 three-st'y brick stores and dwells., tin roofs; cost, $4,000 each; owner, Charles Hart, 710 Degraw St.

Henry St., n e cor. Huntington St., 2 four-st'y brick stores and dwells., tin roofs; cost, $6,000 each; owner, John Caulfield, Hamilton Ave., near Henry St.; architects, H. L. Spicer & Son, Third Ave. and Fifty-third St.

Camden, N. J.—*Broadway*, w s, above Chestnut St., one-st'y brick store; owner, Wilmon Whildin, 1132 Broadway.

BUILDING INTELLIGENCE.

Chicago, Ill. — J. J. Donahue, 5 four-st'y stores and flats, 1348-1356 Halsted St.; cost, $64,000.

John Killiack, two-st'y store and flats, 840 West Seventeenth St.; cost, $4,000.

Harry and Jetta Landfield, four-st'y store and flats, 566-572 Armitage Ave.; cost, $10,000.

Mary O'Leary, three-st'y store and flats, 1023 West Harrison St.; cost, $4,000.

John Blue, three st'y store and flats, 369 West Harrison St.; cost, $5,000.

F. Palertyner, three-st'y store and flats, 204 West Webster Ave.; cost, $5,360.

James McGrath, 2 three-st'y stores and flats, 318-320 North California Ave.; cost, $8,000.

L. Schlaufer, three-st'y store and flats, 1142 Diversy Ave.; cost, $3,500.

G. L. Hallberg, 5 three-st'y store and flats, 1718-1726 North Clark St.; cost, $20,000.

August Benzin, two-st'y store and flats, 102 Roscoe St.; cost, $4,500.

Henry Cohen, 3 four-st'y store and flats, 255-259 North Wells St.; cost, $8,300.

Louis Stangler, four-st'y store and flats, 294 West Madison St.; cost, $10,000.

M. Cody, two-st'y store and flats, 5540 Atlantic St.; cost, $3,000.

William Kern, four-st'y store and flats, 190 Milwaukee Ave.; cost, $7,000.

Martin Breck, four-st'y store and flats, 471 West Twentieth St.; cost, $11,000.

Cincinnati, O. — D. Goetz, two-and-one-half-st'y frame store and dwell., Dawson St.; cost, $2,500; architects, G. & A. Brink.

Minneapolis, Minn. — James McMillan, four-st'y brick store and flat building, 114-16-18-20 First Ave. North; cost, $30,000.

Alpheus Dabe, three-st'y brick store and flat building, 826-828 Twentieth Ave. n; cost, $15,000.

Mrs. P. Heldmeier, 246-48-50 Fourth Ave. s; cost, $13,000.

TENEMENT-HOUSES.

Brooklyn, N. Y. — *Classon Ave.*.., e s, 50′ s Bergen St., 5 four-st'y brick tenements, tin roofs; cost, $8,000; owner and builder, W. E. Valentine, Freeport, L. I.; architect, J. E. Brown, Freeport, L. I.

New York, N. Y. — *Maugin St.*, w s, 55′ 5″ s Stanton St., five-st'y brick tenement, tin roof; cost, $10,000; owner, Martin E. Stevens, 608 West One Hundred and Forty-seventh St.; architect, J. J. Vreeland, 711 East One Hundred and Seventy-seventh St.

WAREHOUSES.

Cincinnati, O.—Striet & Smith, four-st'y brick and stone warehouse, Hopkins St.; cost, $5,000; architect, John H. Boll.

PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., July 19, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 11th day of August, 1892, and opened immediately thereafter for supplying and delivering at freight depot at place of designation, the Post-office lock boxes, lock drawers, locks, pulls, plates, etc., for United States Public Buildings, in accordance with specification, as may be ordered during the fiscal year ending June 30, 1893. Copies of the specification and any additional information may be had on application at this office. Each bid must be accompanied by a certified check for $100. The right is reserved to reject any or all bids or to waive any defect or informality in any bid should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Lock Boxes, Lock Drawers, Locks, Pulls, Plates, etc., for the United States Post-offices," and addressed to W. J. EDBROOKE, Supervising Architect. 866

Treasury Department, Office Supervising Architect, Washington, D. C., July 12, 1892. Sealed proposals will be received at this office until two o'clock, P. M. on the 9th day of August, 1892, and opened immediately thereafter, for all the labor and materials and fixing in place complete a first-class heating and ventilating apparatus for the United States Post-office building at Canton, Ohio, the United States Post-

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office building at Lansing, and the United States Post-office, etc., building at Jackson, Mich. General drawings and specification may be had on application at this office or the office of the Superintendent of each of the above named buildings. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Heating and Ventilating Apparatus for the United States Post-office building at Canton, Ohio, the United States Post-office building at Lansing, Mich., or the United States Post-office building at Jackson, Mich.," (as the case may be) and addressed to W. J. EDBROOKE, Supervising Architect. 866

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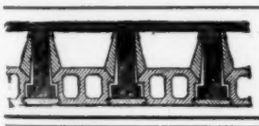
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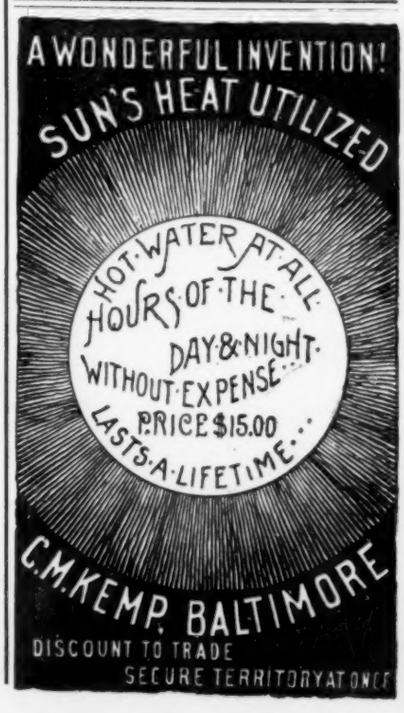

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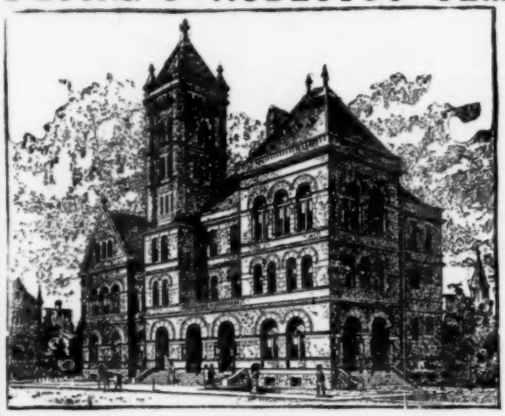
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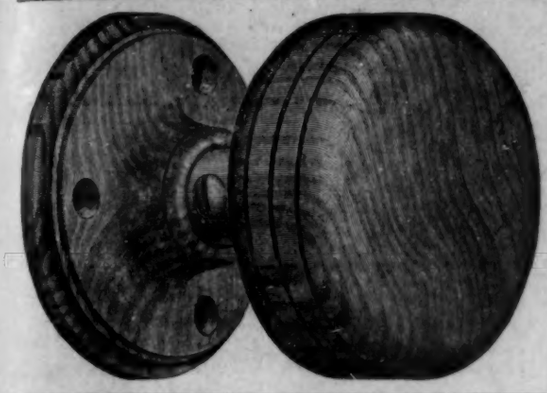

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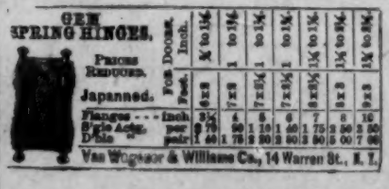

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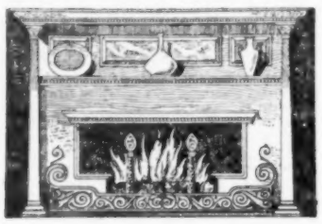

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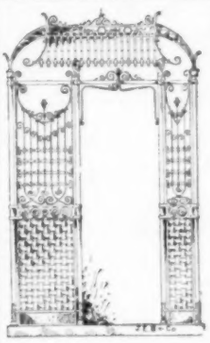

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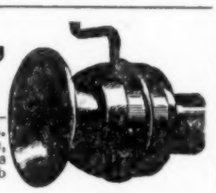

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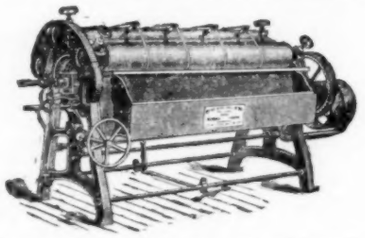

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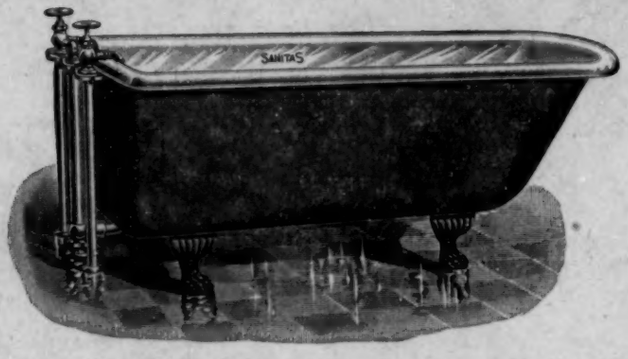

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LUMBER.—₱ M.				
Boards: (*Ordinary dimensions.*)				
Pine, 1st quality, clear	65 00 @ 75 00	50 00 @ 60 00	30 00 @ 47 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	25 00 @ 28 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	35 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	13 50 @ 25 00	*Not sold.*	16 00 @ 20 00
Hemlock	ea 13½ @ 14	13 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	25 00 @ 35 00	29 00 @ 37 00	14 00 @ 29 00
Cypress	@	31 00 @ 40 00	@	@ 35 00
Clapboards:				
Pine	@	38 00 @ 60 00	10 00 @ 22 00	14 00 @ 25 00
Spruce	@	23 00 @ 35 00	*Not sold.*	*Not sold.*
Framing Timber:				
Pine			12 00 @ 15 00	25 00 @ 37 30
Spruce	14 00 @ 18 00	15 00 @ 18 00	*Not sold.*	16 00 @ 18 00
Hemlock	12 00 @ 16 00	13 00 @ 15 00	10 00 @ 13 00	13 00 @ 17 00
Yellow pine	18 00 @ 21 00	24 00 @ 35 00		22 00 @ 28 00
Laths:				
Pine	@	2 25 @ 2 35	2 10 @ 2 25	2 75 @ 3 00
Spruce	2 85 @ 3 00	2 35 @ 2 50	*Not sold.*	2 30 @ 3 00
Shingles:				
Pine, shaved ₱ M.	5 00 @ 6 00	@	*Not sold.*	
Pine, sawed "	4 00 @ 5 00	@ 4 50	2 20 @ 3 00	
Spruce, sawed "	1 50 @ 2 00	1 50 @ 00	*Not sold.*	
Redwood ₱ 125	1 40 @ 1 00	3 75 @ 4 00	6 00 @ 7 50	30″ $35 @ 40
Cedar split ₱ M.	@	@	*Not sold.*	24″ 8 @ 21
Cedar sawed "	@	2 00 @ 4 00	2 00 @ 2 35	20″ 35 @ 14
Cypress. Split...7 x 24. "	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Piles ₱ ft.	4½ @ 5½	Piles 6c. ₱ ft.	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 18 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.)	@	25 @ 50	@ 21	40 @ 1 25
Chestnut posts	@	25 @ 50	*Not sold.*	20 @ 30
Finishing Woods: ₱ M. (*First Qual.*				
Ash [*Kiln-dried.*]	@ 55 00	45 00 @ 60 00	30 00 @ 35 00	30 00 @ 40 00
Cherry	80 00 @ 120 00	90 00 @ 120 00	80 00 @ 110 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	50 00 @ 60 00	70 00 @ 80 00
Hard-pine floors (rift)		45 00 @ 50 00		
Mahogany, Baywood [Mexican]	@ 180 00	150 00 @ 160 00	150 00 @ 200 00	150 00 @ 250 00
" St. Domingo	@ 350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
Oak, red	@ 70 00	@ 50 00	32 00 @ 40 00	45 00 @ 55 00
" white	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	35 00 @ 50 00	57 50 @ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	35 00 @ 50 00	@ 65 00
Redwood	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
Rosewood ₱ lb.	@ 6		@ 7	
Spruce floors (clear, kiln-dried)		32 00 @ 35 00		
Walnut, black	125 00 @ 150 00	85 00 @ 120 00	55 00 @ 100 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	40 00 @ 45 00	18 00 @ 40 00	25 00 @ 40 00
Yellow pine ₱ M.	@ 45 00	40 00 @ 42 00	29 00 @ 40 00	@ 45 00

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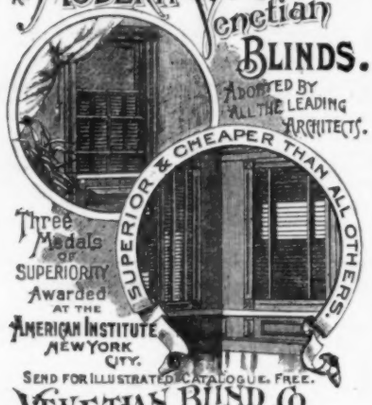

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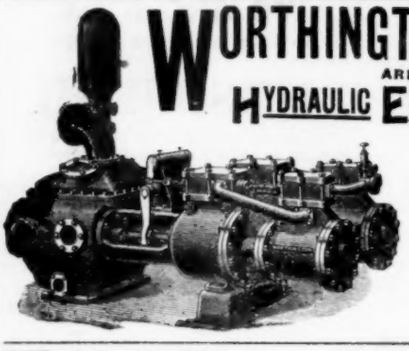

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Common: *Cargo afloat.*				In Yard.
Pale	1 75 @ 2 00	Eastern 9 00 @ 10 00	Building Brick @ 6 50	Sq. Hard @ 9 00
Jersey	4 00 @ 4 75			" @ 7 00
Long Island	@	Bay State Hard 7 00 @ 8 00		Salmon @ 5 00
Up River	4 00 @ 4 75	Domestic Com. 9 50 @ 10 00	Indiana Pressed 14 00 @ 20 00	Sq. " @ 9 00
Haverstraw Bay 2d	4 75 @ 5 00	Domestic Face 20 00 @ 22 00	St. Louis Fronts @ 27 00	Light Stretchers @ 10 00
" 1st	5 00 @ 5 25	Philadelphia 40 00 @ 45 00		Medium " @ 12 00
Hollow	@ 13 00	Phila. mould 50 00 @ 80 00	15 00 @ 27 00	Red " @ 13 00
Fronts:			65 00 @ 350 00	Dark " @ 13 00
Croton, Brown	@ 13 00	Anderson 14 00 @ 32 00	@ 55 00	Pressed @ 20 00
" dark	@ 14 00		45 00 @ 50 00	18 00 @ 20 00
" red	@ 14 00		45 00 @	Best Paving @ 14 00
Chicago pressed (Anderson)			25 00 @	Second " @ 13 00
" Moulded			60 00 @ 100 00	Third " @ 12 00
Baltimore	37 00 @ 41 00		30 @	
Philadelphia	23 00 @ 24 00		35 @	
Trenton	22 00 @ 23 00		55 00 @ 65 00	
Milwaukee				Dom. @ 65
Moulded:			@ 100 00	@ 85
Glens Falls Red Pressed	@ 37 00		@ 120 00	
" " Buff "	@ 30 00			
" " Moulded Red & Buff	45 00 @ 70 00			
Enamelled: *Imp.*				
Enamelled (edge)	85 00 @100 00			
Enamelled (edge and end)	90 00 @115 00			
CEMENT, LIME, etc.—(₱ *cask.*)				
Rosendale Cement	85 @ 95	1 20 @ 1 40	*Not sold.*	1 30 @ 1 50
Louisville "		Brooks, S. & Co.	1 05 @ 1 30	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	*Not sold.*	2 60 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs)	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	Josson
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	2 60 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover)	2 50 @ 3 00		*Not sold.*	2 75 @ 2 85
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	2 70 @ 3 00
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30
Chicago Lime in bulk		St. John 1 00	55 @	White Mash
Wisconsin Lime			60 @	1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	1 00 @ 1 00
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ *bush.*	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		35 @ 60	75 @ 1 50
Serpentine	@	10 50 per ton	@ 1 00	₱ Perch @ 4 00

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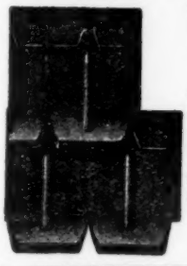

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Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in.th. 10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst }	90 @ 95	90 @ 1 00	45 @ 50	}
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	55 @ 1 00
Berlin }	75 @ 1 00	80 @ 90	55 @ 65	}
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Rooding (℔ *square*)	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" green	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" purple	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	} 50 @ 10 25
" red	4 25 @ 4 75	@	6 25 @ 6 85	325 @ 4 00
" black, Lehigh	@	@	7 30 @ 8 00	00 @ 4 65
" " Chapmans	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
" Unfading black, Monson, Me	@	@	*Not Sold.*	@ 35 00
Tiles, Am ...℔ M.	@	@	@	6 00 @ 6 75
N. Peach Bottom, warranted unfading	@	@		
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	@ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	40 @ 41	57 @ 60	@ 60
" " boiled	58 @ 65	43 @ 44	60 @ 63	@ 63
Turpentine	36 @ 37	@ 35	51 @ 51	@ 44
Varnish, coach	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting } dry	75 @ 1 00	1 @ 1½	1 @ 1½	¾ @ 1
Paris white, (Eng.) }	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am }	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask
Butts: 4″ x 4″ ...(℔ doz. pairs.)				2 90 (all kinds.)
Plain	@ 1 00	@ 1 20	@ 90	@ 90
Japanned	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Acorn, Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 75
Ball Tip, Boston Finish ...(℔ pair.)	@ 65	@ 50	*Not Sold.*	48 @ 50
Bronze metal	@ 1 80	plain 1 65	2 00 @ 3 25	@ 1 25
Brass (for cupboards.)	@ 10	@ 10	@ 12	@ 1 00
Ebony	@	@	@	@ 35
Apple wood	@	@	@	37 @ 1 00
Knobs: (℔ *set.*)				
Mineral, best	@ 8	@ 8	8 @ 10	@ 08
Lava	@ 50	@ 75	65 @ 80	*Not Sold.*
Hemacite	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Porcelain	@ 30	@ 10	25 @ 30	@ 25
Glass, solid	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, silvered	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:	@	@	13 @ 16	13½ @ 16
Sheet Lead	@	@ 7½	@ 7	@ 6½
Lead Pipe	@	@ 6½	@ 6½	6 @ 6
Iron:				
I-Beams, up to and including 36 ft	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ½, ¼, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
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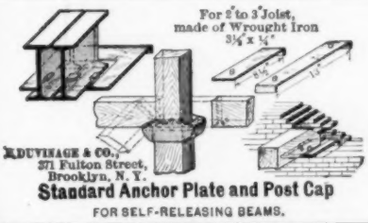

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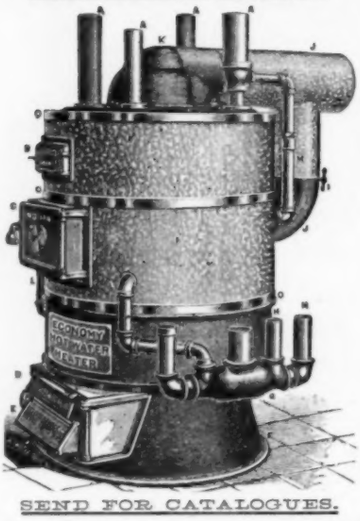

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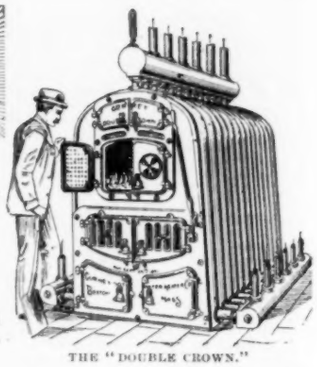

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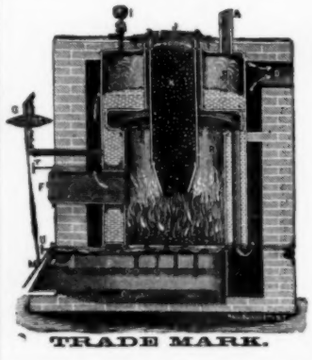

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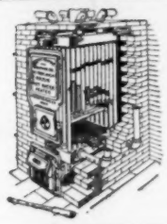

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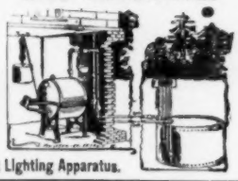

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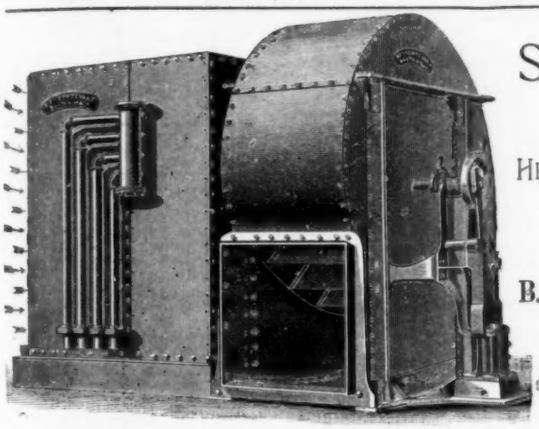

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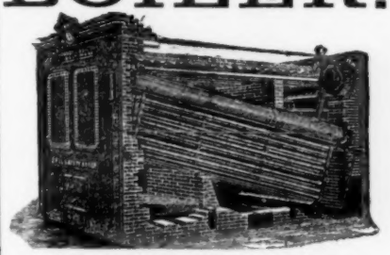

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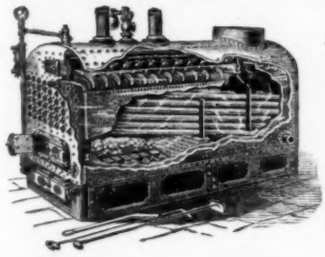

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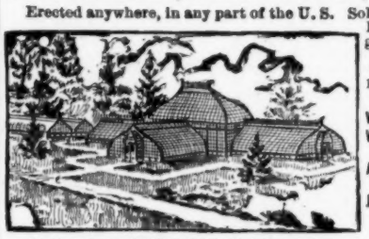

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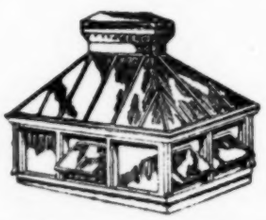

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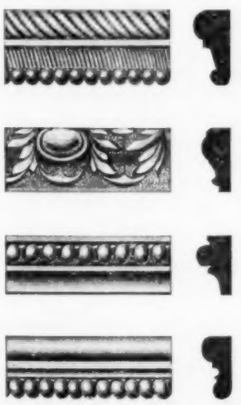

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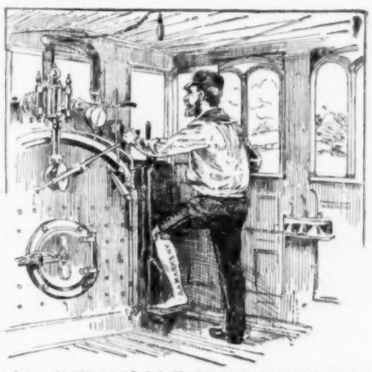

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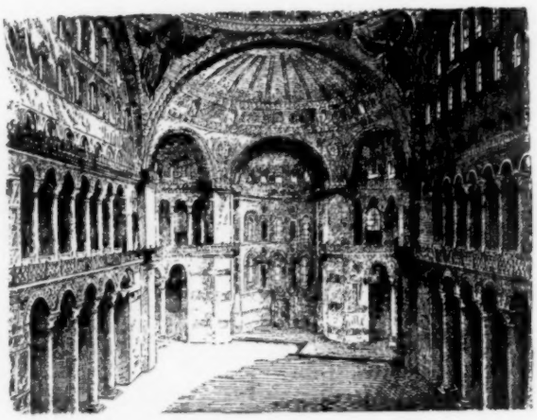

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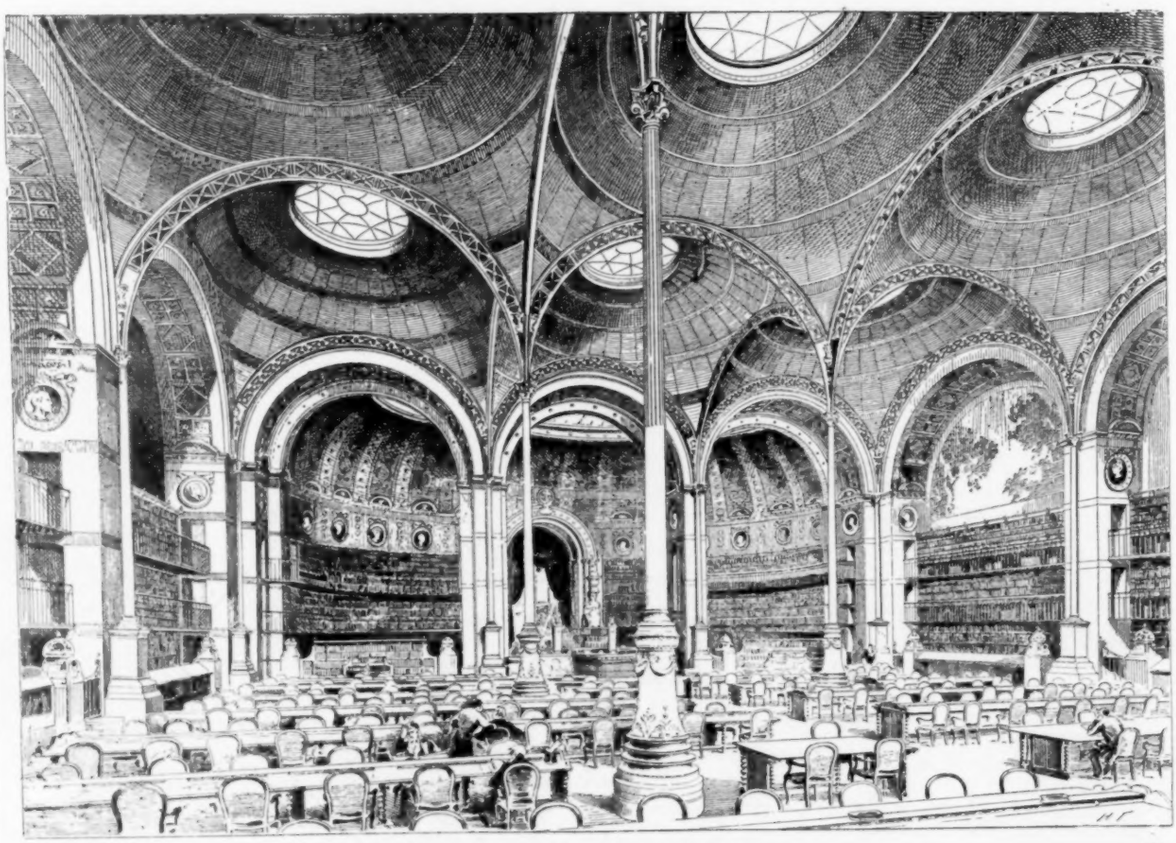

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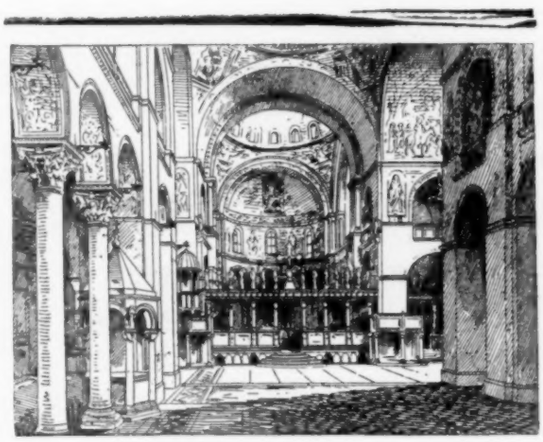

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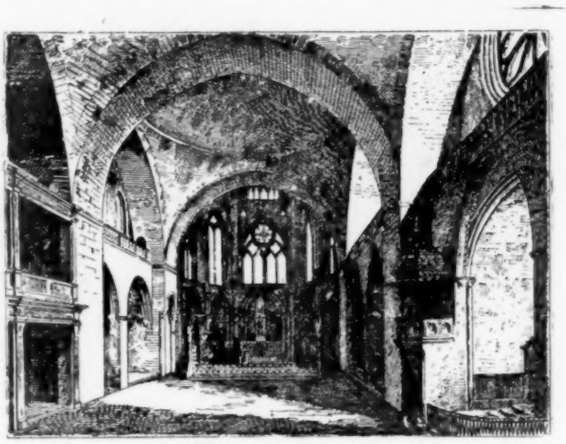

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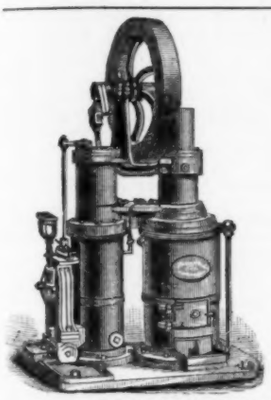

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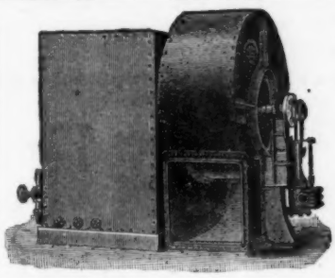

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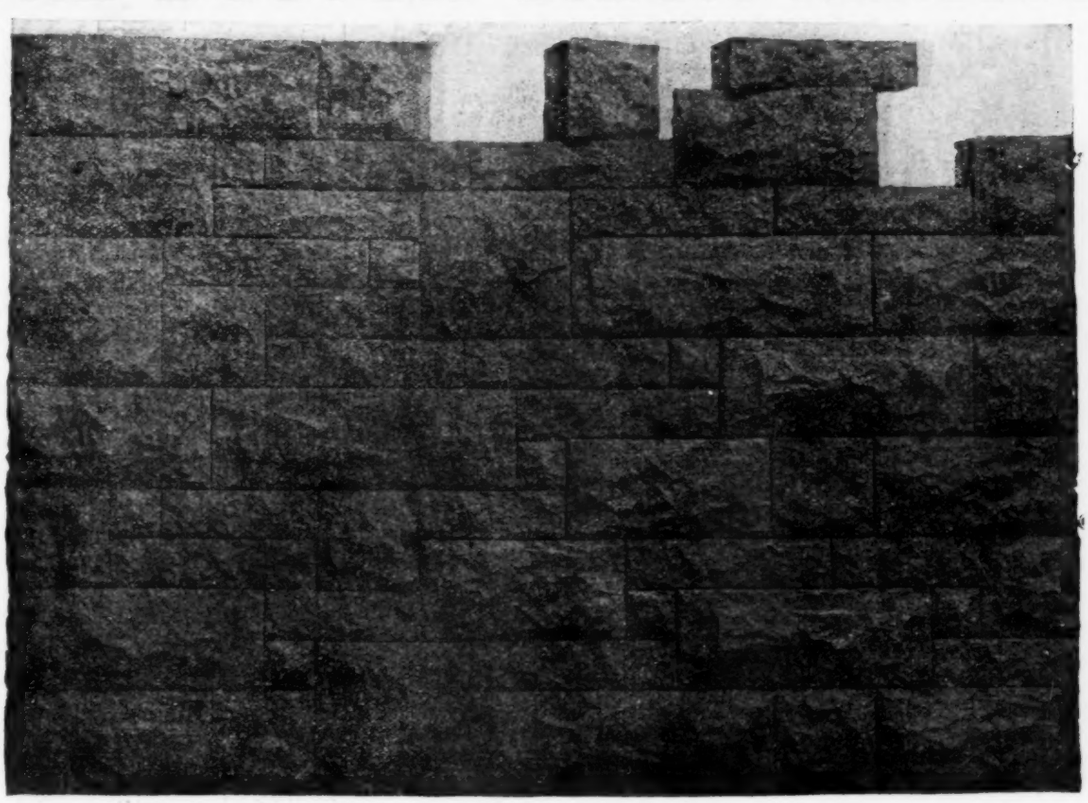

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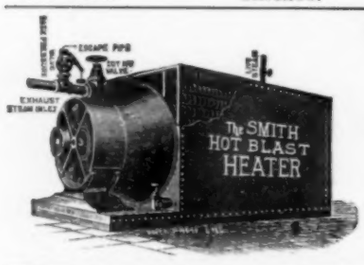

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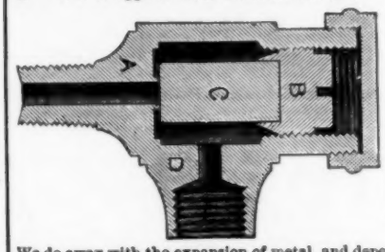

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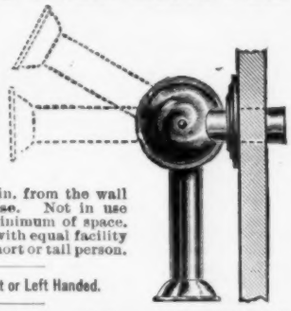
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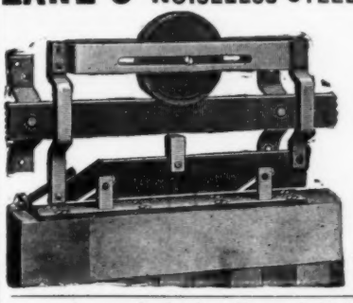
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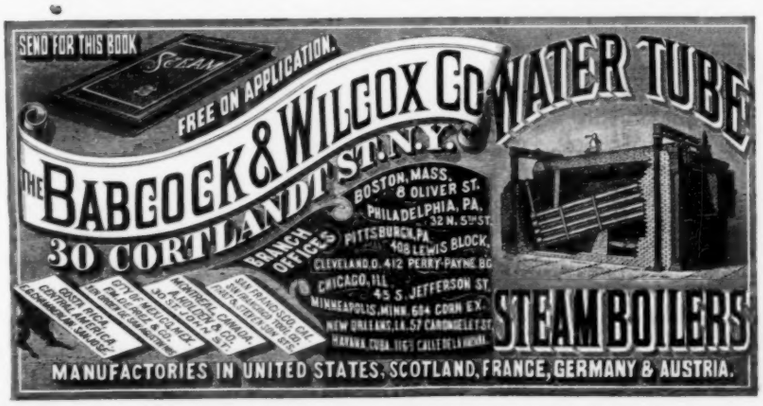

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The American Architect and Building News

IS PUBLISHED EVERY SATURDAY BY

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211 Tremont St., Boston, Mass.

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ISAAC A. SHEPPARD & CO. (Philadelphia, Pa.), Ranges. Page vi.
MERCHANT & CO. (Philadelphia, Pa.), Tin Plates. Page ix.
RARITAN HOLLOW AND POROUS BRICK CO. (New York, N. Y.), Fireproofing Materials. Page xix.

WANTED.

POSITION. — Wanted, position by draughtsman; good constructionist and superintendent; would take charge of an office; best New York references; no objection to going South or West. Address "M. W.," care of *American Architect.* 867

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[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

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477,226. Automatic Cut-off for Water-Troughs. — William S. Reagan, Myra, Kans.

477,233. Miter-Machine. — Albert H. Soukup, Kansas City, Mo.

477,254. Miter-Clamp. — Frederick W. Hedgeland, Chicago, Ill.

477,275. Furnace-Damper-Regulator. — Levi F. Smith, Philadelphia, Pa.

477,276. Pipe-Damper Regulator. — Levi F. Smith, Philadelphia, Pa.

477,291. Sash-Holder. — William A. Bomar, Metropolis City, Ill.

477,294. Hydraulic Lift. — Robert Carey, London, England.

477,301. Electric Jail. — Perley Hale, Chicago, Ill.

477,312. Plumb-Level. — Martin C. Rockteacher and John H. McKeon, Eagle, Wis.

477,346. Tile Roofing. — Joseph M. Wood, Bellaire, Ohio.

477,361. Concrete-Mixer. — George F. Gray and Harry N. Gray, San Francisco, Cal.

477,371. Safety Attachment for Elevators. — Levi M. Kellogg, San Francisco, Cal.

477,045. Level and Plumb. — Frank W. Dechaux, Defiance, Ohio.

477,418. Brick-Kiln. — Michael J. Hynes, Toronto, Canada.

477,426. Door-Securer. — Augustus Lochman, Milton, Pa.

477,445-446. Latch. — Albert A. Page, New Haven, Conn.

477,465. Butt-Hinge. — Roswell T. Smith, Nashua, N. H.

477,470. Hot-Water or Steam-Boiler. — John M. Thatcher, Kansas City, Mo.

477,485. Attachment and Coupling for Water-Closets. — John D. Abraham, Cincinnati, Ohio.

477,499. Waste-Trap. — George F. Brown, Philadelphia, Pa.

477,500. Fastener for the Meeting-Rails of Sashes. — Lorenzo M. Bronson, Richmond Hill, N. Y.

477,519. Hot-Air Furnace. — James Cunningham, Dushore, Pa.

477,537. Fastener for the Meeting-Rails of Sashes. — David Gutermute, Petaluma, Cal.

477,551. Weather-Vane Indicator. — Charles J. Kerr, Reynoldsville, Pa.

477,562. Screen-Door. — William F. Lipp, Dayton, Ohio, and Elijah J. Preston, Alexandria, Ky.

477,567. Cistern-Cleaner. — George W. McConnell, Hale, Mo.

477,571. Door-Spring. — Ansel W. Paine, Boston, Mass.

477,582. Fireplace-Blower. — Gutie H. Tuttle, Shorter's Depot, Ala.

477,616. Electric-Annunciator Drop. — James C. Warren, Chicago, Ill.

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477,701. Portable Roof. — John H. Wright, Henderson County, Ill.

477,714-717. Flushing-Valve. — William A. Turner, Worcester, Mass.

477,730. Elevator. — Parvin Wright, Denver, Colo.

477,746. Tile-Frame. — Otto P. and Gotthold O. Elterich, Maywood, N. Y.

477,757. Portable House. — Orrin P. Howe, Augusta, Me.

477,790. Door-Latch. — Harry D. Wheatley, Union City, Ind.

477,801. Sash-Holder. — Henry B. Hayes, Woburn, Mass.

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477,925. Structural Column. — Amory Coffin, Phœnixville, Pa.

477,929. Reversible Latch. — Albert A. Dovey, Newark, N. J.

477,977. Cesspool-Valve. — Robert Welling, Covington, Ky.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING JULY 29, 1892.

From Antwerp. — Steamer "*Freesland*," 1,000 barrels cement, M. Ebert; 500 do., Baetjer & Meyerstein; 4,750 do., order. Steamer "*Apollo*," 24,112 fire bricks, Hudson River Pulp & Paper Co.

From Cardenas. — Steamer "*Saratoga*," 348 sacks asphaltum, Balsells & Co.

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From Hamburg. — Steamer "*Wileysike*," 560 casks cement, Gabriel & Schall; 2,016 casks cement, 2,250 barrels do., order. Steamer "*Rugia*," 560 casks cement, E. Thiele. Steamer "*Wieland*," 560 casks cement, E. Thiele; 1,000 barrels do., order.

From Havana. — Steamer "*Yumuri*," 1 bag asphaltum, James E. Ward & Co.

From Leghorn. — Steamer "*Trinacia*," 15 blocks marble, Pells & Co.; 20 do., G. Amsinck & Co.; 2 do., Batterson, See & Eisel; 2 do., Taber & Co.; 454 slabs do., order.

From London. — Steamer "*England*," 1,000 casks cement, C. J. Stevens; 2,000 do., order. Steamer

(*Continued on page* xv.)

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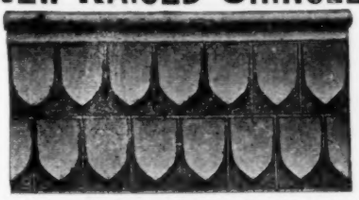

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From Newcastle-on-Tyne. — Steamer *"Croft,"* 30,000 fire bricks, Hammill & Gillespie; 840 casks Portland cement, Bowring & Archibald; 19 do. glazed bricks, C. R. Weeks & Bro.

From Rotterdam. — Steamer *"Veendam,"* 1,000 casks cement, E. Thiele. Steamer *"Schiedam,"* 1,000 casks cement, E. Thiele; 1,000 do., order.

From San Andreas. — Schooner *"A. B. Cusly,"* 43 logs mahogany, W. L. Rathbun & Co.

From Santa Cruz, Cuba.—Schooner *"Gleaner,"* 730 logs cedar timber, order.

From Trinidad.— Steamer *"Alps,"* 700 tons asphaltum, order.

From Vera Cruz. — Steamer *"Yumuri,"* 93 blocks marble, E. Zaranz & Co.; 36 bags asphaltum, Seeger & Guernsey Co.; 13 sacks asphaltum, J. W. Wilson & Co.

From Windsor, N. S. — Schooner *"Phœnix,"* 700 tons plaster, H. H. Wotherspoon. Schooner *"Gypsum Prince,"* 1,435 tons plaster, J. F. Whitney & Co.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

ALTERATIONS.

Auburndale, Mass. — Alterations and additions to First Congregational Church; builder, H. H. Hunt; architects, Hartwell & Richardson.

Boston, Mass. — *Franklin St.*, cor. Pearl St., addition to building for Smith & Porter; builder, C. A. Dodge; architects, Hartwell & Richardson.

Brooklyn, N. Y. — *Fulton St., No.* 528, three-st'y brick store, tin roof, three-st'y brick extension, tin roof, and internal and other alterations; cost, $4,500; owner, Wm. Berri, 526 Fulton St., architect, John Mumford, 189 Montague St.

Fulton St., Nos. 442-444, four-st'y brick store, slate and tin roof, new front added; cost, $3,000; owner, S. Milkman, 444 Fulton St.

Jerolemon St., No. 91, four-st'y brick dwell., tin roof, two-st'y brick extension, tin roof, and other alterations; cost, $5,000; owner, Thomas E. Stillman, 95 Jerolemon St.; architect, Chas. E. Haight, 111 Broadway, New York City.

Washington St., No. 321, three-st'y brick dwell., tin roof, one-st'y brick extension, tin roof, and internal and other alterations; cost, $3,700; owner, Miss Callahan, 321 Washington St.; architect and builder, Joseph I. Kirby, 73 Gates Ave.

BUILDING INTELLIGENCE.

Clinton St., Nos. 28-30, three-st'y brick stores and dwells., tin roofs, internal and other alterations; cost, about $4,500; owner, P. Maresi, 28 Clinton St.; architect, Samuel Curtiss, 5 and 6 Court Square.

Livingston St., s s, 225' e Nevins St., three-st'y brick dwell., tin roof, one and two st'y brick extension, tin roof, and other alterations; cost, $4,000; owners, Brooklyn W. & S. Co., 32 East Forty-second St., New York City; architect, W. B. Tubby, 81 Fulton St., New York City.

Sterling Pl., Nos. 117-121, two-st'y brick stable, gravel roof, raised one story; cost, $4,500; owner, Mrs. Rogers, 90 Park Pl.; architects, I. D. Reynolds & Son, 363 Fulton St.

Chicago, Ill. — Chicago & Northern Pacific R. R., addition to round-house, Twelfth St. and the River; cost, $10,000.

Antonia Crupka, one-st'y addition, 2 Carrier St.; cost, $5,000.

Bemis & Curtis Malting Co., one-st'y addition to elevator, Bliss St., near Hickory Ave.; cost, $9,000.

Gustav Hanson, two-st'y addition, 16-18 Desplaines St.; cost, $3,000.

Charles Kuehn, alterations and addition, 933-935 Milwaukee Ave.; cost, $5,000.

R. E. Esmond, basement and alteration, 343 Bowen Ave.; cost, $3,000.

Detroit, Mich. — J. C. Walsh, addition to Detroit College of Medicine, 250 St. Antoine St.; cost, $15,000.

Rogers & McFarland, addition to brick dwell., 481 Jefferson Ave.; cost, $15,000.

J. S. Gearing & Sons, addition to Central M. E. Chapel; cost, $20,000.

Dorchester, Mass.—Addition to the Second Congregational Church; builders, Dodge Bros.; architects, Hartwell & Richardson, Boston.

Grand Rapids, Mich. — *Canal St.*, cor. Hastings St., three-st'y brick additions and alterations to Ohio House; cost, $16,000; owner, Fred H. Brogger; architect, W. G. Robinson.

Minneapolis, Minn.—New England Association, reconstruction of the old *Tribune* Building, making fireproof throughout, First Ave., s, and Fourth St.; cost, $200,000.

New York, N. Y. — *Cannon St., No.* 100, alterations to the Austro-Hungarian Synagogue; cost, $10,000; architect, Charles Rentz.

Seventy-first St. and Boulevard, alterations and addition of rectory and tower to Christ Episcopal Church; cost, $60,000; architect, C. C. Haight.

Philadelphia, Pa. — *Kaighn's Ave.*, near R. R., alterations to frame dwell.; owner, Theo. Witherspoon, 1812 Mt. Ephraim Ave.

Orchard St., n e cor. Seventh St., alteration to frame dwell.; owner, Jacob Heater, 248 Chestnut St.

Ninth St., below Central Ave., alteration to brick dwell.; owner, Aaron Ward.

Tenth and Cooper Sts., one-st'y frame addition to church; owner, Bethany Church.

Division St., No. 405, alteration to frame building; owner, John Kline.

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improvements to Union Hotel; owner, Jacob M. Wall.

Worcester, Mass.—*Canterberry St.*, three-st'y brick school-house addition; owner, City of Worcester; architects, W. F. Dearborn & Son and J. B. Woodworth.

APARTMENT-HOUSES.

Boston, Mass. — *East Third St., No.* 722, Ward 14, two-st'y frame apartments, 21′ x 54′; owner, J. H. Walker; builder, Thomas Keating.

Brooklyn, N. Y. — *Broadway*, s s, 54′ 4″ w Hancock St., four-st'y brick apartment-house and store, tin roof; cost, $10,000; owner and builder, Wm. H. Barton, 10 Cooper St.; architect, W. M. Coots, 189 Montague St.

Chicago, Ill. — H. E. Bennett, 2 four-st'y flats, 2641-2643 Armour Ave.; cost, $15,000.
Richard Giefenhagen, 2 four-st'y flats, 499-501 Dearborn Ave.; cost, $25,000.
L. C. Carter, 2 three-st'y flats, 634-636 Boulevard Ave.; cost, $20,000.
Susan M. Anthony, two st'y flats, 7036 Stony Island Ave.; cost, $3,000.
T. Benton Leiter, 12 four-st'y flats, 211-237 Jackson Park Terrace; cost, $170,000.
Peter A. Johnson, three-st'y flats, 174 Racine Ave.; cost, $6,000.
Fred Dahlen, three-st'y flats, 4633 Evans Ave.; cost, $6,000.
Charlotte Stone, three-st'y flats, 1226 Noble St.; cost, $7,000.
Louise Nelson and Carrie Johnson, three-st'y flats, 1655 Briar Pl.; cost, $6,000.
Frank Rerger, two-st'y flats, 735 North Western Ave.; cost, $6,000.
F. H. Remun, three-st'y flats, 35 Pearson St.; cost, $18,000.
J. P. Mallette, 2 two-st'y flats, 7814-7816 Stewart Ave.; cost, $11,000.
A. F. Wares, two-st'y flats, 5420 Emerald Ave.; cost, $3,500.
Mrs. A. Hill, 2 two-st'y flats, 7126 South Chicago Ave.; cost, $3,000.
L. H. Stafford, 2 two-st'y flats, 6630 Lexington Ave.; cost, $3,000.
H. Smith, two-st'y flats, 387 North Robey St.; cost, $4,000.
C. Theders, two-st'y flats, 226 Hoffman St.; cost, $3,000.
J. M. Kenney, three-st'y flats, 3365 Parnell Ave.; cost, $3,000.
Mary Burns, three-st'y flats, 678 Washtenaw Ave.; cost, $6,200.
H. Hummelken, two-st'y flats, 5409 Tracy Ave.; cost, $3,300.
C. N. Fills, three-st'y flats, 3445 Armour Ave.; cost, $5,800.
Walter & Johnson, 2 three-st'y flats, 502-504 Kenwood Pl.; cost, $14,000.
Charles Hanson, three-st'y flats, 170 Richmond St.; cost, $6,000.
W. M. Coney, two-st'y flats, 4521 Evans Ave.; cost, $10,000.
John Ratter, two-st'y flats, 5446 Champlain St.; cost, $3,800.
A. Resler, 2 two-st'y flats, 6040-6042 Wright St.; cost, $18,000.
John Henning, two-st'y flats, 852 Sawyer Ave.; cost, $4,000.
C. J. Adams, 2 four-st'y apartment buildings, 3447-3449 Prairie Ave.; cost, $30,000.
John Getz, three-st'y flats, 33 Grove Ct.; cost, $4,000.
C. Hanses, two-st'y flats, 417 North Hoyne Ave.; cost, $3,500.
Mrs. M. Burns, two-st'y flats, 458 Bissell St.; cost, $6,000.
Adolph Nelson, three-st'y flats, 173 Samuel St.; cost, $3,500.
Thomas C. O'Connor, three-st'y flats, 109 Miller Ave.; cost, $4,500.
George S. Tinney, 8 two-st'y flats, 1741-1745 West Ohio St.; cost, $22,000.
Griffin & Dwight, 4 two-st'y flats, 771-773 West Erie St.; cost, $12,000.
Arne Pederson, three-st'y flats, 807 Rockwell St.; cost, $5,000.

BUILDING INTELLIGENCE.

Mrs. W. Martin, two-st'y flats, 712 Monroe St.; cost, $4,000.
John Meyer, 2 two-st'y flats, 690-692 Paulina St.; cost, $4,500.
Henry Spatterstein, four-st'y flats, 118 Newberry Ave.; cost, $5,000.
N. F. Wells, two-st'y flats, 1050 Central Park Boulevard; cost, $3,000.
James U. Borden, 2 four-st'y flats, 242-244 Morgan St.; cost, $25,000.
Mrs. A. Shaddott, three-st'y flats, 412 Marshfield Ave.; cost, $7,000.
Ed. J. Bowes, Jr. & Bro., 3 three-st'y flats, 1065-1069 Washington Boulevard; cost, $20,000.
H. Bergeman, three-st'y flats and laboratory, 896 Davis St.; cost, $5,500.

New York, N. Y. — *One Hundred and Twelfth St.*, n s, 250′ e First Ave., 4 five-st'y brick flats, tin roofs; cost, $68,000; owners, Italio-American Con. Co., 2308 Second Ave.; architect, Nicholas Conforti, 210 East Eleventh St.
East Thirty-fourth St., No. 409, five-st'y brick flat, tin roof; cost, $18,000; owner, John McSherry, 230 East Thirty-fifth St.; architect, John C. Burne, 101 West Forty-second St.
One Hundred and Twenty-second St., n s, 60′ e Lexington Ave., 2 five-st'y brick flats, tin roofs; cost, $120,000; owner, Alexander A. Jordan, 948 Second Ave.; architects, Neville & Bagge, 250 West One Hundred and Twenty-third St.
Fifth Ave., n e cor. One Hundred and Fourteenth St., 2 five-st'y brick flats, tin roofs; cost, $70,000; owner, Simon Poyser, 335 East Ninetieth St.; architect, A. F. Leich, 62 Liberty St.
West Fifty-first St., No. 314, five-st'y brick flat, tin roof; cost, $20,000; owner, John Kennedy, 314 West Fifty-first St.; architect, George Keister, 146 West Thirty-fourth St.
West Thirty-first St., Nos. 239-243, 3 five-st'y brick, stone and terra-cotta flats; cost, $72,000; owners, Loonie & Parker; architect, Charles Rentz.

CHURCHES.

Baltimore, Md. — Perkins Square Baptist Church congregation will build brick and stone church, s e cor. George St. and Clinton Ave.

Cincinnati, O. — Trustees of Italian Church, brick and stone church, Broadway; cost, $3,000; architects, Rieg & Marty.
Mt. Auburn Church, brick and stone church, Maplewood Ave.; cost, $20,000; architects, Crapsey & Brown.

Cliftondale, Mass. — Frame church, 43.6′ x 64.6′; shingled, leaked glazing; black cypress finish; seating-capacity, 200; Sunday School to seat 100; for Congregational Society; builders, O. C. Higgins & Co.; architect, H. Langford Warren, Boston.

Hopkinsville, Tenn. — A $20,000 church will be built by the Baptists.

Malden, Mass.—Mystic Side Congregational Chapel; builder, L. L. Libby; architects, Hartwell & Richardson, Boston.

New York, N. Y. — *Central Park, West*, s w cor. Ninety-sixth St., stone church; cost, $200,000; owner, Scotch Presbyterian Church; architect, W. H. Hume.

Oxford, N. C. — The Baptists will build a brick and granite church, to cost about $12,000.

Paris, Texas.—The Baptists contemplate building a $20,000 church.

Tallahassee, Fla. — The Methodists are building a church, to cost about $15,000.

FACTORIES.

Boston, Mass. — *Boston St., No.* 111, Ward 15, frame factory, flat roof, 34′ x 110′; owner, T. A. Bresnahan; builders, Collins & Ham.

Grand Rapids, Mich. — Seven-st'y cut-stone and pressed brick factory; cost, $55,000; owners, Grand Rapids Refrigerator Co.; builders, A. Bremgartner Co.; architect, W. G. Robinson.

Philadelphia, Pa.—*Greenwich Point*, four-st'y brick factory; owner, A. W. South, 1821 South Front St.
Greenwich Point, two-st'y brick factory; owner, A. W. South, 1821 South Front St.

Somerville, Mass.—*Park St.*, two-st'y brick factory, flat roof, 53′ x 86.6′, with L 16′ x 70′; owner, Peter Forg; builder, James Smith; architects, Little, Brown & Moore, Boston.

HOSPITALS.

Brooklyn, N. Y.—*De Kalb Ave.*, n s, 150′ e Raymond St., three-st'y brick hospital, tile and tin roof; cost, $50,000; owners, Directors of Brooklyn Hospital; architect, W. B. Tubby, 81 Fulton St., New York City.

HOTELS.

Boston, Mass. — *Mason St., Nos.* 54-60, *Washington St., Nos.* 553-573, Ward 10, six-st'y brick and stone hotel, flat roof, 99′ x 114′; owner, G. G. Hall, *et als.*; builder, A. Lothrop.

Dunkirk, N. Y.—Brick and stone building for Hotel Gratiot; architect, W. H. Archer, Buffalo, N. Y.

Malden, Mass. — Brick block for hotel, stores, etc.; owner, E. C. Richardson; builder, L. L. Libby; architects, Hartwell & Richardson, Boston.

North Tonawanda, N. Y. — Three-st'y frame and stone building for Hotel Archer; architect, W. H. Archer, Buffalo, N. Y.

HOUSES.

Baltimore, Md. — Wm. F. Flagge, 3 two-st'y brick buildings, rear e s Madison Ave., bet. North Ave. and Whitelock Lane.
Jno. A. Evans, 3 three-st'y brick buildings, Madison Ave., bet. North Ave. and Whitelock Lane.
G. E. Warfield, 20 two-st'y brick buildings, e s Holbrook St., bet. Oliver and Federal Sts.; 12 two-st'y brick buildings, w s Holbrook St., bet. Hoffman and Oliver Sts.; 7 two-st'y brick buildings, e s Ensor St., bet. Hoffman and Oliver Sts.; and 5 two-st'y brick buildings, s s Oliver St., bet. Holbrook and Ensor Sts.
L. E. Wilcox, 2 two-st'y brick buildings, McKim St., bet. Willow and Chew Sts.

Boston, Mass. — *Laurel St.*, cor. Cedar St., Ward 3, three-st'y brick dwell., flat roof, 25.2′ x 43.6′; owner and builder, Michael Kelly.
Unnamed Pl., off No. 45 Monument St., Ward 3, 3 three-st'y frame dwells., flat roofs, 21′ x 58.6′; owner and builder, P. O'Riordan.
Paris St., near Decatur St., Ward 2, three-st'y frame dwell., flat roof, 21.6′ x 45′; owner, Christopher Kammerer; builder, Thomas Newby.
Chauncey Place, near Decatur St., Ward 3, 2 three-st'y frame dwells., flat roofs, 22′ x 72′; owner, P. O'Riordan; builder, John Hayes.
West Fifth St., rear No. 63, Ward 13, 3 three-st'y frame dwells., 28′ x 30′; owner and builder, Harrison Dunham.

(*Continued on page* xx.)

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Monroe St., Nos. 50-52, Ward 21, two frame dwells., 36′ x 48′; owner and builder, Wm. Swanson.

Maple St., near Garden St., Ward 23, frame dwell., 21′ x 37.6′; owner, George Walker; builders, Decker Bros.

Hutchins St., near Harold St., Ward 21, frame dwell., 27′ x 34.6′; owner, Mrs. Sarah Lunt; builder, Peter Hutchinson.

Elmore St., rear, near Washington St., Ward 21, 3 three-st'y frame dwells., flat roofs, 21′ x 46′; owner and builder, John J. Johnston.

Meridian St., No. 388, Ward 1, three-st'y frame dwell., flat roof, 23′ x 71′; owner and builder, Thos. Kellough.

Commonwealth Ave., No. 375, Ward 11, four-st'y brick dwell., flat roof, 26′ x 67′; owner, H. M. Jernigan.

Beacon St., near Harvard Bridge, Ward 11, 5 four-st'y brick dwells., flat roofs, 22.9′ x 70′; owner and builder, Eugene H. Fay.

Willow Park, Nos. 14-18, Ward 19, 3 three-st'y brick dwells., flat roofs, 20′ x 40′; owner, Nellie A. Smith; builder, W. H. Smith.

Blue Hill Ave., cor. Evelyn St., Ward 24, frame dwell., 25.6′ x 48′; owner, S. B. Small; builder, N. W. Foye.

Shawmut Park, Nos. 14-16, Ward 24, four frame dwells., 36′ x 28′, 25.6′ x 35.3′, 29.6′ x 33.6′, 26′ x 32′, 27′ x 41.6′; owner, C. A. Coffin; builder, H. B. Rankin.

Bicknell St., near Harvard St., Ward 24, frame dwell., 27′ x 41.6′; owner, M. V. Swift; builder, B. T. Emery.

Leyland St., near Cottage St., Ward 20, three-st'y frame dwell., flat roof, 25′ x 51′; owner and builder, G. M. Fernald.

Baker Place ext., near Oleander St., Ward 20, two frame dwells., 24′ x 30′; owner, C. E. Clark; builder, W. J. Jobling.

Norfolk St., near Washington St., Ward 23, frame dwell., 22′ x 35′; owner, F. McDonald; builders, L. Martin & Co.

Tremlett Park, near Waaldeck St., Ward 24, two-st'y frame dwell., hip roof, 30′ x 42′; owner, Jacob Brodie; builder, J. P. Oliver.

Leyland St., near Cottage St., Ward 20, 2 three-st'y frame dwells., flat roofs, 27′ x 51′; owner and builder, G. M. Fernald.

Beech St., near Anawan Ave., Ward 23, frame dwell., 25′ x 37′; owner, G. E. Black; builder, W. S. Mitchell.

Unnamed St, from Dorchester Ave. to Minton St., Ward 24, two frame dwells., flat roofs, 22′ x 53′; owner, Catherine Sullivan; builder, H. A. Verge.

Everett St., Nos. 74-76, Ward 2, 2 three-st'y frame dwells., flat roofs, 19′ x 41.6′, owner, Mrs. A. Killalea; builder, W. Goodwin.

Conway St., cor. Fairview St., Ward 23, frame dwell., 26.6′ x 40′; owner, Sarah E. Knapp; builders, Dame & Warner.

Neponset Ave., junc. Freeport St., Ward 24, frame dwell., 24′ x 48′; owner, Mary A. Donaghue; builders, J. A. Vickery & Sons.

Cook's Court, near Freemont Place, Ward 24, two frame dwells., 24′ x 28′; owner, S. B. Pierce; builder, W. J. Jobling.

Remington St., near Nixon Ave., Ward 24, frame dwell., 26′ x 42′; owner, W. C. Sharp; builders, Whittaker & Gerrish.

Commonwealth Ave., No. 477, Ward 22, five-st'y brick dwell., flat roof, 21′ x 72′, owner, W. B. Allen; builders, Connery & Wentworth.

Connelly St., near Harrison Ave., Ward 20, 2 three-st'y brick dwells., flat roofs, 20′ x 33′; owner, Caroline D. Jewett; builder, N. M. Jewett.

Intervale Park, cor. Burnside Ave., Ward 24, frame dwell., hip roof, 31′ x 39.6′; owner, S. P. Galloupe; builders, Gould Bros.

Vaughan St., near Geneva Ave., Ward 24, three-st'y frame dwell., flat roof, 19′ x 38′; owner and builder, J. Donohue.

Brown Ave., near Prospect Ave., Ward 23, frame dwell., 26′ x 48.9′; owner, Mrs. J. M. Peterson; builders, Sittig Bros.

Spring Park Ave., cor. Nelson St., Ward 23, 2 three-st'y frame dwells., flat roofs, 23.6′ x 68′; owner, B. F. Jerome; builders, McNeil & McLean.

Menlo St., near Henshaw St., Ward 25, three-st'y frame dwell., hip roof, 27.6′ x 38.4′; owner, H. L. Jackson; builder, S. N. Davenport.

Glendale St., Nos. 12-18, Ward 24, four frame dwells., hip roofs, 21.6′ x 55′; owner, W. W. Chipman; builders, Delano & Little.

Patterson St., near Codman St., Ward 24, two frame dwells., 22′ x 30′; owner and builder, I. Schurmer.

Algonquin St., near Gladstone St., Ward 24, frame dwell., 29.6′ x 32.6′; owner, J. P. B. Carlton; builder, D. G. Squire.

Melville Ave., cor. Upland Ave., Ward 25, three-st'y frame dwell., gambrel roof, 32′ x 51.6′; owners, heirs of Walter Baker; builder, C. F. Baxter.

Washington St., cor. West Park St., Ward 24, frame dwell., 23′ x 59′; owner, Mrs. J. T. Rogers; builder, J. M. Merrill.

Chestnut Ave., No. 136, Ward 23, frame dwell., 26′ x 47′; owner, Sebastian Gahm; builder, P. Schneider.

Kilton St., near Wheatland Ave., Ward 24, two frame dwells., 23′ x 32′; owner, J. W. Hildreth; builder, W. A. Lent.

Hancock St., cor. Rocky Hill Ave., Ward 20, four-st'y brick dwell. and store, flat roof, 23′ x 57′; owner, A. P. Wheelock.

Fairview St., near Mendum St., Ward 23, frame dwell., 26′ x 28′; owner, L. M. Carlson; builders, Alcock & McKay.

Howard Ave., next Brookford St., Ward 20, frame dwell., 26′ x 32′; owner, T. A. Haggerty; builder, M. J. O'Brien.

Humboldt Ave., cor. Laurel St., Ward 21, 2 four-st'y frame dwells. and stores, flat roofs, 40′ x 58′ and 36′ x 48′; owner, S. C. Keene.

Unnamed St., from Paul Gore St., near Chestnut Ave., Ward 23, frame dwell., 25.6′ x 41′; owner, Charles Mahan; builder, G. A. Cahill.

Unnamed St., from Centre St., near West Roxbury Station, Ward 23, frame dwell., 22′ x 30′; owner, W. H. Balond; builder, M. A. Blanchard.

Harrison Ave., Nos. 623 and 627, Ward 17, 2 four-st'y brick dwells., flat roofs, 20′ x 36′; owner and builder, M. A. Parsons.

Dudley St., off Howard Ave., Ward 20, three-st'y brick dwell., flat roof, 25′ x 50.6′; owners and builders, A. Torno & Co.

Lanark Road, cor. Unnamed St., near Kilsyth Road, Ward 25, frame dwell., hip roof, 24.4′ x 40.1′; owner, Mrs. W. L. Sturtevant; builder, H. H. Hunt.

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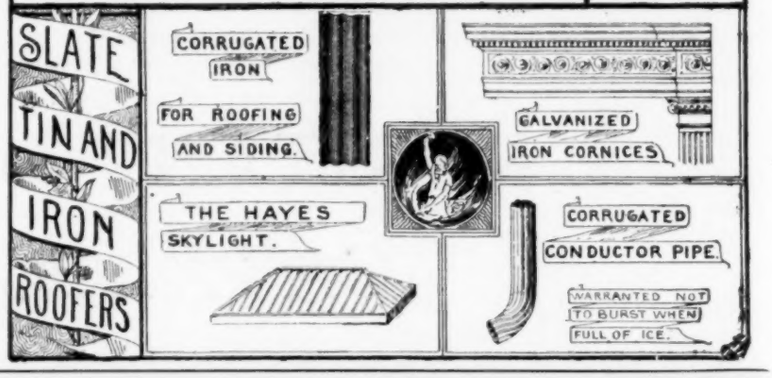

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BUILDING INTELLIGENCE.

Weldon St., cor. Wenham St., Ward 23, frame dwell., 29.4′ x 43.8′; owner, Delia Devney.

Washington St., No. 2800, Ward 21, four st'y frame dwell. and store, flat roof, 25′ x 51′; owner, Agnes Andrews; builder, Thomas Tufts.

Huntington Ave., near Worthington St., Ward 22, three-st'y brick dwell., flat roof, 30′ x 69′; owners, Miss L. J. Conroy *et als.*; builder, James Fagan.

Meridian St., near Falcon St., Ward 1, frame dwell., 23.6′ x 50′; owner, Amanda F. Bailey; builder, D. D. Fish.

Weld St., near Dwinell St., Ward 23, frame dwell., 25′ x 35′; owner, S. S. Wakeman; builder, M. A. Blanchard.

Putnam St., No. 172, cor. Chelsea St., Ward 1, three-st'y frame dwell. and store, flat roof, 23′ x 50′; owner, F. Goodwin; builder, W. Goodwin.

Minot St., near Narragansett St., Ward 24, frame dwell., hip roof, 28′ x 42.8′; owner, P. F. Eldredge; builder, W. J. Hatch.

Henshaw St., near Kirk St., Ward 23, frame dwell., 25.6′ x 42′; owner, I. Whittemore; builder, M. A. Blanchard.

Quincy St., near Stanley St., Ward 24, three-st'y frame dwell., flat roof, 25′ x 49.9′; owner, Jessie C. Mullen.

Minot St., near Adams St., Ward 24, frame dwell., 23′ x 49.6′; owner, A. H. Stearns; builder, W. J. Hatch.

Frost Ave., cor. Boutwell Ave., Ward 24, frame dwell., hip roof, 36′ x 37′; owner, E. E. Frost; builder, W. J. Hatch.

Rockwood St., near Pond St., Ward 23, three-st'y frame dwell., hip roof, 57′ x 62′; owner, S. C. Heald.

Dudley St., opp. Howard Ave., Ward 20, four-st'y brick dwell., 25′ x 50.6′; owners and builders, A. Torno & Co.

Brookline, Mass. — *Beacon St.*, four brick dwells.; architects, Lewis & Paine, Boston.

Brooklyn, N. Y. — *Chestnut St.*, e s, 100′ s Liberty Ave., 5 two-st'y frame dwells., shingle roofs; cost, $2,600 each; owner, architect and builder, S. L. Hollister, 120 Schenck Ave.

Gates Ave., s s, 50′ e Knickerbocker Ave., 2 three-st'y frame dwells., tin roofs; cost, $3,800; owner, James Kilcoyn, 1446 Gates Ave.; architect, Benj. Finkensieper, 93 Broadway.

Halsey St., s s, 200′ e Tompkins Ave., 6 two-and-one-half-st'y brick dwells., tin roofs; cost, $5,000 each; owner, architect and builder, David Weild, 359 Hancock St.

Stone Ave., w s, 150′ s Liberty Ave., 2 three-st'y frame dwells., tin roofs; cost, $4,000; owner, David Axelroth, Thatford Ave.

Bleecker St., Nos. 330-332, 2 three-st'y frame dwells., tin roofs; cost, $3,500 each; owner, architect and builder, H. Etringer, on premises.

Sackman St., w s, 20′ s Dumont Ave., 10 two-st'y frame dwells.; owner, Henry Seerman, Rockaway Ave.; architects, Danmar & Fischer, Atlantic and Van Siclen Aves.

Thirty-third St., n s, 180′ e Third Ave., 6 two-st'y frame dwells., tin roofs; cost, $1,800 each; owner, Wm. E. Kay, Blythebourne, L. I.; architect and builder, Mr. Abrahamson, Blythebourne, L. I.

Railroad Ave., w s, 150′ s Griffin Pl., 3 two-st'y frame dwells., tin roofs; cost, $4,000; owner, Betsy Reichert, Railroad Ave., near Griffin Pl.; architect, Jos. A. Reichert, Railroad Ave., near Griffin Pl.

Linden St., n s, 175′ w Central Ave., 2 three-st'y frame dwells., tin roofs; cost, $4,000 each; owners and builders, Van Ness Bros., 100 Albany Ave.; architect, H. Vollweiler, 483 Hart St.

Putnam Ave., s s, 340′ e Bushwick Ave., 3 three-st'y frame dwells., tin roofs; cost, $3,000; owner, architect and builder, John Menchon, 25 Blake St.

Greene Ave., n s, 100′ w Hamburg Ave., 4 three-st'y frame dwells., tin roofs; cost, $5,000 each; owner and builder, W. Berlinger, 1251 Greene Ave.; architect, H. Vollweiler, 483 Hart St.

St. Mark's Ave., s s, 200′ w Nostrand Ave., 6 three-st'y brick dwells., tin roofs; cost, $10,000 each; owner, C. H. Roberts, 213 Reid Ave.; architect, M. Dahlander, 1062 Bedford Ave.

Buffalo Ave., w s, 16′ s Bergen St., two-st'y frame dwell., tin roof; cost, $3,000; owner and architect, Geo. F. Van Doren, 346 Macon St.

Fifty-seventh St., s s, 300′ e Fourth Ave., 3 two-st'y frame dwells., tin roofs; cost, $3,000 each; owner, S. B. Oulton, 519 Sixth Ave.; architect, George M. Miller, 261 Thirteenth St.

COMPETITION.

PUBLIC LIBRARY. [At Charlestown, N. H.]

The committee appointed to build a public library at Charlestown, N. H., is prepared to consider architectural designs for a library building to be constructed of brick. Cost of building must not exceed $7,000.

GEO. OLCOTT,
868 CHAIRMAN.

PROPOSALS.

WOOD AND IRON WORK. [At Charlestown, Mass.]

Drawings and specifications for wood and iron work and staging of the roof of the new north wing of State-Prison at Charlestown are now ready at this office, where full information will be given and proposals received **up to noon of Wednesday, August 10th.**

The right is reserved to reject any or all proposals.

A bond may be required for the execution of the work.

(*Continued on page* xxiii.)

THE following Report by Prof. J. S. Newberry, Professor of Geology and Paleontology in the Columbia College School of Mines, in which he has established a museum of 100,000 specimens of rare value, should be given due weight as being the opinion of the highest living authority upon the subject of which he writes.

Dr. Newberry was born in Windsor, Ct., December 23, 1822. He graduated from Western Reserve College in 1846, and from the Cleveland Medical College in 1848, spent two years in study abroad, and then began the practice of medicine in Cleveland, where he remained until 1855.

During this year he was appointed acting Assistant-Surgeon and Geologist to the party, which under Lieut. Robert S. Williamson, explored the country between San Francisco and the Columbia River. He assisted Lieut. Joseph C. Ives in the exploration of the Colorado River, and was with Capt. John N. Macomb, on the San Juan and Upper Colorado Rivers. In 1859 Prof. Newberry travelled over the plains of Southern Colorado, Utah, Northern Arizona and New Mexico.

In 1866 Prof. Newberry was elected Professor of Geology and Paleontology in the Columbia College School of Mines. In 1869 he was appointed State Geologist of Ohio.

Seven years ago he was appointed paleontologist to the United States Geological Survey, having charge of the investigation of fossils, botany and fishes. Western Reserve College conferred the degree of LL. D. upon him in 1867. In 1888 the Geological Society of London presented him with the Murchison gold medal. He is a member of the Scientific Societies of America and Europe, was named by Congress one of the corporate members of the National Academy of Science, has been President of the American Association for the Advancement of Science, and of the New York Academy of Science since 1867, and is President of the Torrey Botanical Club.

Dr. Newberry is the author of more than two hundred titles, and stands in the front rank of the mining experts of the world.

The Potsdam Sandstone from the quarries of the Potsdam Red Sandstone Company, has been used so extensively by builders of the United States and Canada, and its reputation is so well established, that it might seem that no further word was needed on this subject. It has been under my observation for many years in the public buildings at Ottawa, Canada, and elsewhere, and more particularly in the recently constructed buildings of Columbia College, New York. I had subjected the stone used at Columbia to microscopic observation, chemical analysis and physical tests, at the time when the choice of stone was under consideration by our architect. From these experiments I had learned as I supposed all that it was necessary to know about the stone, viz: that it was a dark red banded sandstone, having a resistance to a crushing force of 17,000 to 18,000 pounds per square inch; that it consisted of silica with a slight ingredient of iron, from which it took its color, and preferable so far as strength, homogeneousness and durability were concerned to any other sandstone known to me. I therefore unhesitatingly recommended its use, and I have never since had occasion to change my mind in regard to its superiority. Still, when I went over the ground and examined the stone in place, and noticed the marked difference in the stone of the different quarries of this company, and especially when I had subjected a new series of specimens to tests for physical strength, I found that I had much to learn in regard to its variety and excellence.

In the first place I discovered that instead of one, there are at least three marked varieties of this stone, possessing different degrees of strength and shades of color, affording to the architect a means of securing a range of effects, when used either singly or in combination. Also, that the stone which we had used at Columbia, though possessing greater strength than any sandstone submitted to trial, was far surpassed in this respect by some of the other varieties attainable, and that the strongest not only exceeded in strength all other varieties of stone tested at the School of Mines, but even resisted the full crushing force of the powerful Emery testing-machine, which we have recently had constructed, and which was supposed to be capable of reducing to powder any building stone submitted to its action. The resistance to crushing force in the specimens tested, varied from 18,401 pounds to the square inch to 42,804, or rather to and beyond the extreme crushing force of our machine; for it was found impossible to overcome with the machine the resistance of two inch cubes of the strongest stone, although the pressure was carried up to 151,000 pounds. Hence we can say that the resistance to crushing force, of the strongest variety, exceeds 42,000 pounds to the square inch, a result greater than we have obtained from tests on granite of any kind, from trap or any other variety of building stone.

The element of beauty is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C.

As I have said, I was surprised to find in the different quarries of this Company so many varieties of color in the stone. In the west quarries, the typical "Red Potsdam," either plain or banded, prevails. On their southern tracts are outcrops of homogeneous and monochrome, chocolate-colored stone in heavy ledges, which will yield blocks of any desired size, while in their quarries on the east side are exposed about fifty feet of rather massive layers, separated by a band of fifteen feet of foundation orbri dge stone. The upper and lower bands composing the fifty feet referred to, are mainly of light colored homogeneous stone, to which I was a stranger before visiting the quarries. This is of a reddish cream-color, very uniform in tint and pleasing to the eye. It comes out in layers from two to six feet in thickness and splits with ease and certainty in any direction. With the chocolate-colored stone, to which reference has been made it may be combined with fine effect, one variety being used for trimming to the other, as corner stones, door and window caps, porches, etc., or associated as block stones in plain walls.

This cream-colored variety works with comparative ease, and may be wrought into moulding and ornaments, much more cheaply than the harder varieties, which will be best used when hammer dressed, a style of treatment to which every phase of the stone will lend itself, as it breaks true and even under the hammer.

The different tracts of land controlled by this Company comprise about two hundred acres, distributed for about a mile up and down Racquette river, and selected with judgment so as to embrace the best outcrops of stones found in the district. On all these tracts the Potsdam sandstone is practically the surface rock, being covered only with a layer of greater or less thickness of boulder clay. In quantity, therefore, the quarries are practically inexhaustible, and it is not too much to say that they may be worked for centuries without embarrassment.

J. S. NEWBERRY.

The stone from the quarries of this Company is unexcelled for beauty of color and effect. As the only way that architects can get an idea of the color of the stone is by inspection of a sample, we shall be glad to forward samples and full information to architects who may apply for the same.

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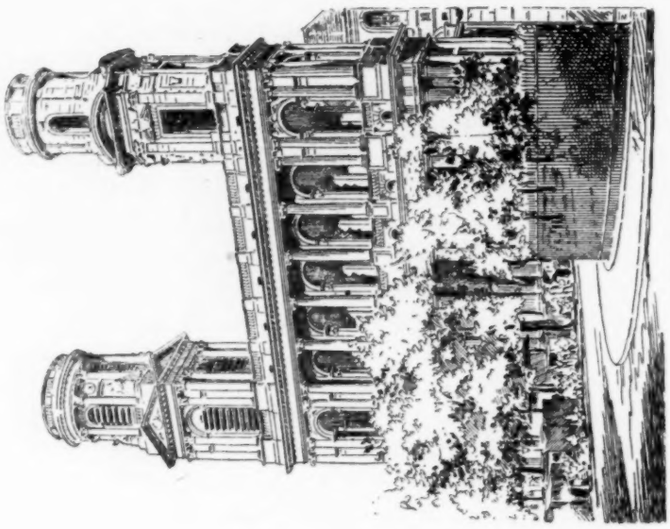

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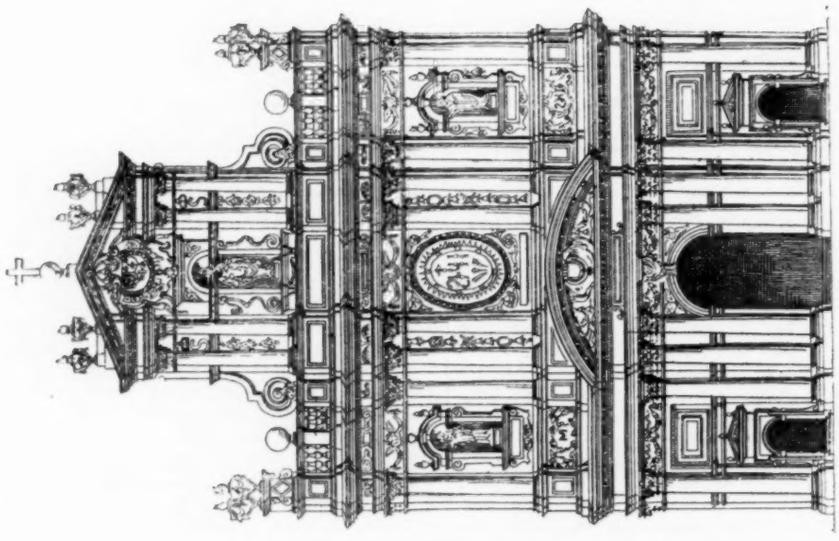

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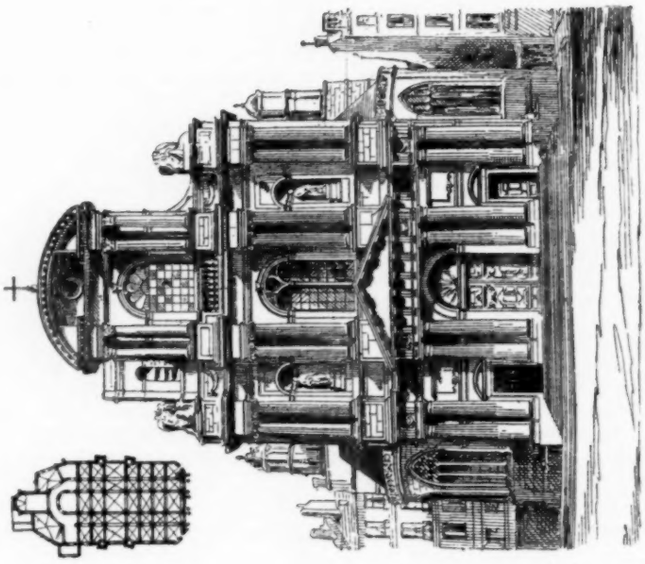

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MARBLE-WORK.
[At Boston, Mass.]

OFFICE OF CHARLES BRIGHAM, ARCHITECT,
27 MT. VERNON STREET, BOSTON, MASS.

Sealed proposals will be received at this office **until 12 M. Monday, August 22, 1892**, for materials and labor for the interior marble-work for the Massachusetts State-House Extension.

Plans and specifications for the same may be seen at the office of the architect on and after Monday, August 8, 1892.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

All bids to be marked "Proposals for the Interior Marble-work for the Massachusetts State-House Extension, Boston, Mass."

JOHN D. LONG,
BENJ. D. WHITCOMB,
WM. ENDICOTT, JR.,
} State-House Construction Commissioners.

868

IRON AND METAL WORK.
[At Boston, Mass.]

OFFICE OF CHARLES BRIGHAM, ARCHITECT,
27 MT. VERNON ST., BOSTON, MASS.

Sealed proposals will be received at this office **until 12 M. Tuesday, August 16, 1892**, for materials and later for the interior iron and metal work for the Massachusetts State-House Extension.

Plans and specifications for the same may be seen at the office of the architect on and after Wednesday, August 3, 1892.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

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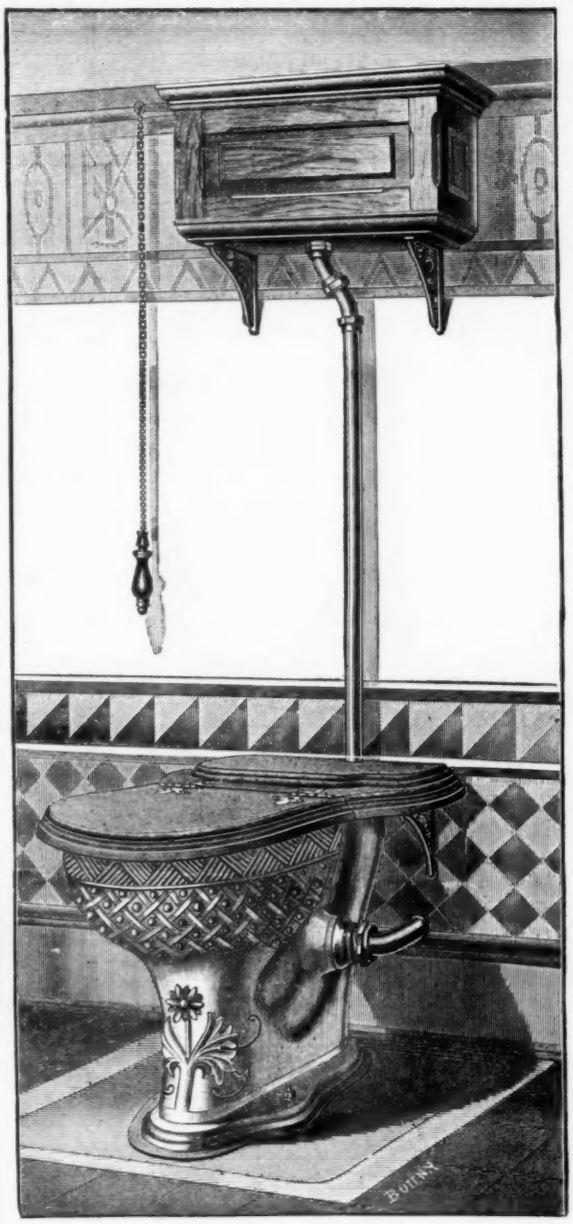

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[At Boston, Mass.]

OFFICE OF CHARLES BRIGHAM, ARCHITECT,
27 MT. VERNON STREET, BOSTON, MASS.

Sealed proposals will be received at this office **until 10 A. M. Friday, August 12, 1892**, for materials and labor required in the painting and glazing for the Massachusetts State-House Extension.

Plans and specifications for the same may be seen at the office of the architect on and after Monday, August 1, 1892.

PROPOSALS.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

All bids to be marked "Proposals for the Painting and Glazing for the Massachusetts State-House Extension, Boston, Mass."

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E. Murphy, late Secretary Master Plumbers' Association, New York: "Its advantages in reducing the cost of plumbing, in furnishing an adequate supply of fresh air, and its non-liability to get out of order, are so patent that further comment would be useless."

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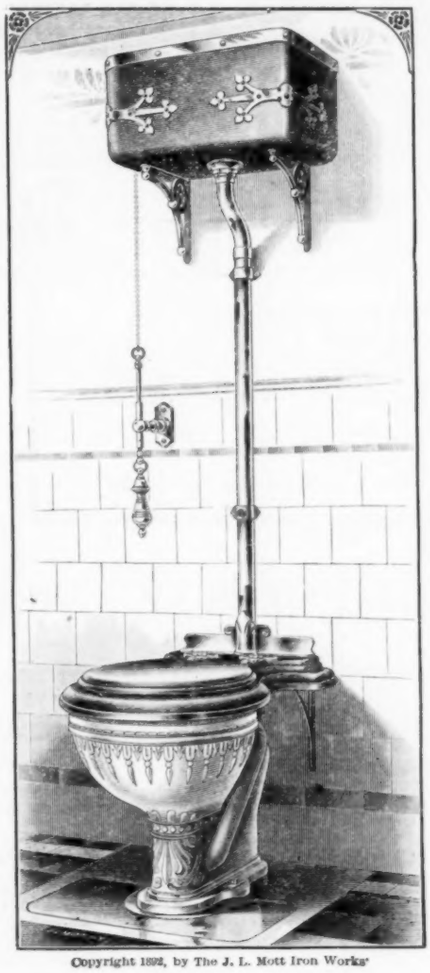

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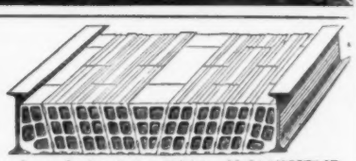
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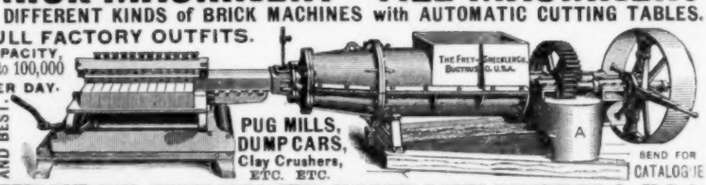

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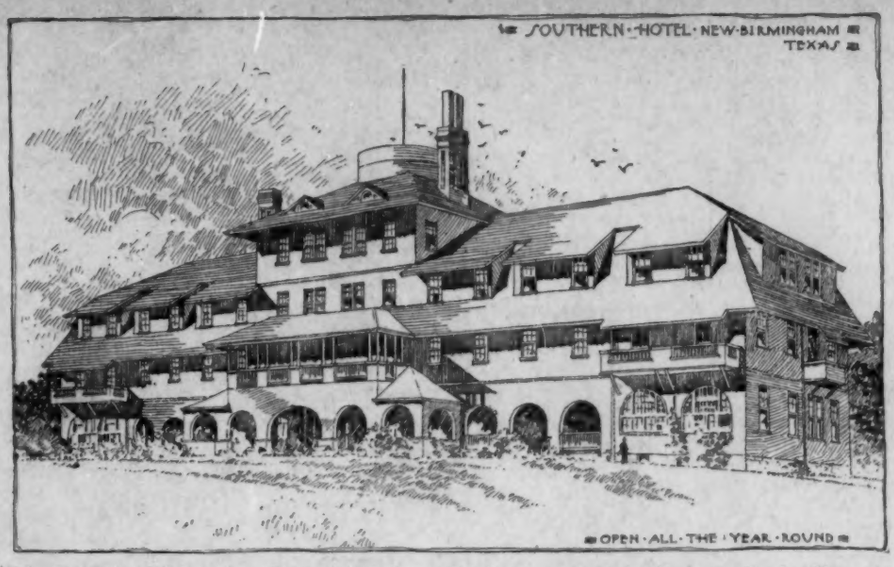

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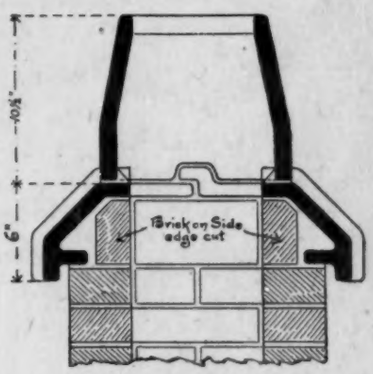

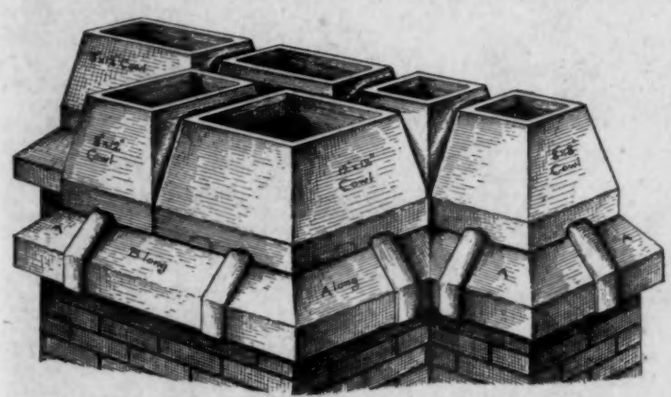

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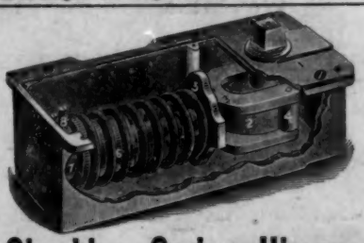

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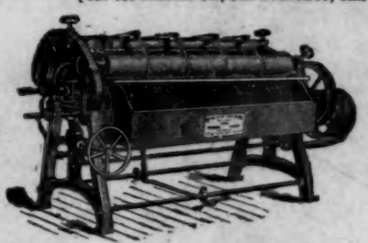

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POLICY HOLDERS' SURPLUS	2,645,761.24
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The American Architect and Building News

ADVERTISERS' TRADE SUPPLEMENT.

No. 122. SATURDAY, AUGUST 6, 1892. Volume XXXVII. No. 807.

HUB HOT-WATER HEATER.

The principle of hot-water heating is the same in all systems. The application of the principle is what determines the value of the apparatus.

The real principle demonstrated in all systems is the rise of water that is warm and the fall of water that is cold. Water is like air — heat it and it rises. Deprive it of its heat and it flows back to the starting-point. The movement of these two currents forms what is known as "Circulation," and the object of all systems of hot-water heating is to facilitate circulation, make it rapid and easy. The best hot-water heater is the one that gives the quickest circulation with the least amount of fuel.

Perfection in a hot-water apparatus is like perfection in a steam-engine — the greatest power with the least waste.

Waste by friction is as bad as waste by loss of fuel. This we shall speak of later.

The principle of circulation then, never varies. The heated water rises through properly arranged pipes and radiators connected with the heater, until it reaches the highest point in the system. It has there parted with so much of its heat that it falls by gravity to the boiler, taking the place of the hotter water which has just left it. The energy with which this process goes on depends on the effectiveness of the boiler.

Every hot-water heating-apparatus is made up of the following parts:

The heater or boiler.

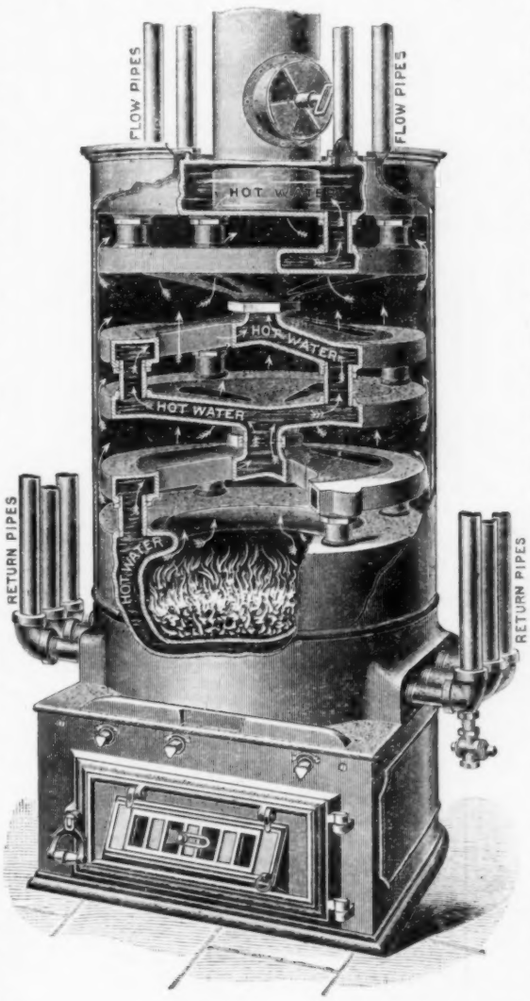
The piping.

The radiators and the expansion-tank.

The proper adjustment and relation of these parts constitutes a hot-water system. When the hot water is carried to radiators in the room, the system is called direct heating. When the hot-water pipes are placed outside of the room and air passed over them and through registers, the system is called indirect heating. The two systems can be combined if desired.

In the Hub Hot-water Heater the casing is a triple non-conducting jacket, made up of an inner casing of wrought-iron, a middle casing of asbestos, and an outside casing of heavy galvanized-iron. There is a circulation of hot air between the inner casing and the hot-water sections, preventing any part of these sections from becoming chilled, as must be the case in other heaters that have parts of their water-surfaces exposed to the cold air of the cellar.

The hot water rises in pipes from the top of the boiler, and, after passing through the radiators, returns again to the heater and, entering the boiler at its lowest point, the process is repeated again and again as long as there is any fire in the boiler.



Bear in mind that water is a non-conductor, and a heated mass of water does not appreciably affect colder water alongside of it. In order to heat water, each of its particles must be brought in contact with a heated surface.

This scientific fact suggests the necessity of having the heating-surfaces of the boiler so multiplied and spread out that all the particles of the water shall pass over them, and receive all the heat the fire can impart. Such an arrangement is one of the cardinal points in the Hub Hot-water Heater.

The heater consists of an overhanging water-shell fire-pot connected with five sloping annular sections. These sections form an inclined waterway, through which there is a perfect circulation with the least possible friction, and as the sections overhang each other they present the largest amount of heating-surface attainable.

The fire-pot is carefully proportioned, and its overhanging water-shell brings the water-surface directly over its hottest part. This is of the first importance, as the energy of the circulation depends on the first upward start the water receives. In the Hub the upward impulse to the water is received as soon as it enters the base of the boiler, and is steadily augmented during the passage through the inclined sections.

The radiator sections are joined to the fire-pot and are connected with it by short, extra-heavy steel tubes. All connections are by screw-joints, and are tested under hydraulic pressure before shipment. This arrangement does away with packing, and gives permanent protection against leaky joints arising from expansion or contraction.

We use the brick-lined fire-pot, as experience has shown this is the best for boiler use. Where the cast-iron comes in contact with the coals, the outside of the fire becomes chilled, and a non-conducting bed of ashes and slag is formed. By using fire-brick, we insure the most perfect combustion, and have a clean, bright fire throughout the entire mass of fuel.

As already stated, our heater consists of an overhanging water-shell fire-pot, and above this are the sections through which the water circulates. In addition to the circulation of hot-air under and over these inclined sections, there are flues through the sections for the flame and products of combustion to pass, greatly augmenting the heating power of the apparatus.

The circulation of the water is from the sides to the centre, and back again four times repeated, before it finally enters the flow-pipe at the top section.

As there is but this one channel for the circulation, all of the water has to pass over every portion of the heating-surface. This surface, having a natural upward incline, ensures a most rapid and positive circulation.

Two points are emphasized in this construction:

1. There is no dead-level in the water-ways, but an upward incline, reducing the friction common to all other heaters where the water has to turn at sharp angles.

2. The water is spread out in thin surfaces, permitting the heat to act on it instantly. Other heaters with deeper masses of water in the ways are but slightly affected by the heat. The thinner the body of water, the more intense is its heat. This is a feature which mechanical men will at once appreciate.

All the water-ways have an upward incline.

SOME SPECIAL FEATURES.

Every Hub Hot-water Heater is fitted and tested at our foundry and shipped complete in four sections. The fire-pot section rests firmly on the base of the heater, and above this are the two boiler sections, the whole being fitted together with but two screw-joints. The dealer has only these two joints to connect, and he can, without a wrench, set up the heater complete, ready for piping, in half an hour.

The advantage of this simplicity over a heater which has numerous joints is self-evident. The more joints, the greater the danger of leakage. The liability of this in the Hub is reduced to a minimum.

Of the two classes of heaters on the market to-day, one is constructed on the principle of vertical circulation, the other on the principle of horizontal circulation. Both are extreme methods, and have undesirable features. The vertical heaters usually have their circulation through perpendicular pipes, which are difficult to clean, difficult to repair, and in many cases cannot be drained of the water after the fire has gone out.

HORIZONTAL CIRCULATION.

Horizontal sections are contrary to nature. The movement of hot-water is always upward, and a level surface with sharp right angles will retard the flow of water by friction.

In the Hub Hot-water Heater we combine all the advantages claimed for both these methods. We have just enough vertical rise to the water to give it upward velocity. Instead of horizontal surfaces for retarding the flow of the water, every section of the Hub is a gradual incline or ascending water-way, over which the water flows easily and rapidly.

THE RESULT.

We thus get the natural movement of the water, and at the same time spread it over the centre of the fire, so that the hottest part of the heat comes in contact with all the sections, passing around and through them. In other words, all of the water-ways in our heater are over surfaces which incline upward, facilitating the circulation and reducing the friction to a minimum.

The water in the upper section, the one farthest from the fire, is actually hotter than in the section closest to the fire, proving that all the sections are in the path of the heat, and each gets thoroughly hot.

The draw-off cock is at the lowest point of the boiler, and every drop of water in the boiler and in the pipes can be quickly and easily drawn off.

SUGGESTIONS.

Most heaters are defective in having a descending and a rising current of water inside the heater, and the two currents get confused, and thus the circulation is impaired. In our heater there is no conflicting circulation. The return-pipe enters at the lowest point, and the water passes upward over a gradually inclined surface until it reaches the top and enters the flow-pipe.

There are no bolted or packed joints in the Hub Hot-water Heater to become loose and leaky. Such joints complicate the setting, and there is no certainty that they are tight until the job is finished and tested. Even then the durability of the joint is doubtful. In the Hub, all the joints except two are screwed together complete and tested before leaving our works. The two joints left for the dealer to connect are also screw-joints, and leakage here from expansion or other causes is practically impossible.

SMITH & ANTHONY STOVE CO.,
Boston, Mass.

HOLLOW BRICK, HAVERSTRAW SIZE.

These bricks correspond in size to the ordinary red bricks used and known in the New York market as "North River" or "Haverstraw" bricks. They have two holes or voids, and weigh therefore thirty-three per cent less than solid bricks of the same size. As a furring brick they are invaluable. Owing to their crushing strength, the Department of Buildings, New York city, admits them to take the place of solid bricks in the walls, so that it is not necessary to increase the thickness of the walls where these bricks are used. They bond and work in with the rest of the bricks.

They are intended to form the inside face of the walls exposed to the weather, thereby taking the place of furring, either of fireproof blocks or wooden strips without increasing the thickness of the wall itself.

The plaster can be directly applied to them, and the hollow spaces will prevent the moisture from striking through.

By using these bricks for this purpose, the actual cost of the brick walls is only increased by the difference in price between common brick and our Hollow Brick, which is very slight.

All cost of wall furring of any kind is done away with, thereby saving time, expense and space.

No vermin can possibly harbor in a building where they are used, there being no channels through which mice or rats can find their way.

In view of so many advantages, the adoption of these bricks for furring purposes recommends itself even in the cheaper class of houses.

These bricks can also be used to great advantage in segmental floor-arches, where great solidity, combined with lightness is required.

In connection with these we manufacture and furnish, when required, hollow "header" bricks, so made as to avoid showing the holes through the bricks at each header course.

The dimensions of the hollow header bricks are 8 x 8 in. and they have the same rise, or thickness, as the stretcher bricks.

POROUS TERRA-COTTA.

There have been lately so many different names given to this material, and so many misrepresentations made in regard to it, that we think it proper to give somewhat in detail its composition, methods of manufacture, and general properties.

Porous Terra-Cotta is a mixture of fire clay and any combustible material sufficiently minute in texture to be thoroughly incorporated with the clay, while being prepared in a plastic state. When burnt to a proper heat the combustible material is consumed, leaving the terra-cotta porous, or "cellular" in texture. It is then capable of receiving and holding firmly either nails or screws. This quality, combined with its lightness, renders the material almost indispensable in certain applications to Fireproofing. The material can be cut and trimmed with edge tools, and allows itself to be fitted to any angle after being burnt, it is of the utmost importance that fire clay should enter into its manufacture. Any clay vitrifying at a low heat is unsuited for the purpose. In this case, the vitrification of easy-burning clays is produced by the heat generated by the combustible material contained in the mixture. The material shrinks upon itself, ceases to be "porous" or "cellular," and loses entirely its main qualities. If, in order to avoid vitrification, a low heat is resorted to in the burning, then carbonization takes place, the combustible material is not burnt out, and the clay, entering in the mixture, being underburnt, the material is soft, weak and unfit for the purpose. It will receive nails or screws, but will not hold them.

This feature has been the cause of so many failures in the manufacture of Porous Terra-Cotta by parties in different parts of the country, who have attempted to make it of ordinary brick clay. We claim that, *without fire clay*, no Porous Terra-Cotta can be made successfully.

We use fire clay with sawdust as combustible material, exercising the greatest care that it is always burned to the proper temperature.

We have entered into these details in justice to ourselves, as we claim, that owing to proper fabrication and suitable raw materials, we have succeeded in giving to Porous Terra-Cotta the excellence it possesses.

We make a specialty of the manufacture of this material, and have had great success in producing a satisfactory article — so much so that all our Porous Terra-Cotta materials, and especially our Roofing-Tiles are recognized as the best in the market.

We cite below, in one group, the important qualities of this material:

It is easily cut with edge tools, yet tenacious.

It receives and holds nails or screws.

It is light, being from forty to fifty per cent less dense than ordinary burnt clay.

It receives and holds the plastering admirably.

These different qualities can readily be appreciated.

Applied to roof lining, protection of wooden or iron beams, columns, girders, and for partitions, it has no equal.

POROUS TERRA-COTTA PARTITIONS.

We manufacture Hollow Bricks or Blocks for this purpose, corresponding in size to the Hollow Hard Burnt Clay partitions. In order to give sufficient material to hold the nail, the outside shells are much thicker than those of the Hard Burnt Clay. Yet their weight, per square foot, for even sizes, is a little less. These partitions are erected and set in the same manner as the others, as already described.

The possibility of cutting the material with edge tools affords the opportunity to cut doors or other openings at any time in these partitions, as well as any chases or grooves that may be needed for the conveyance of either gas, water or waste pipes, electric wires, speaking-tubes, etc.

FRONT BRICKS.

The past ten years have shown what artistic effects architects have been able to produce by the proper use of Ornamental Bricks in the fronts of very large and expensive buildings. Up to that time the front bricks used were mainly of a uniform red color and sold on the New York market as "Philadelphia," "Baltimore," "Trenton," or "Croton."

Front bricks of a buff or drab color were then introduced, and their use proved so successful that they have come extensively into demand.

The shades of these bricks vary from a light yellow buff to a dark drab, and new shades are daily asked for and produced. In addition to these, others, denominated as "Mottled" or "Speckled" bricks, have also been used extensively, and for a certain class of architecture have produced effects heretofore unknown.

The "Pompeian" brick is also becoming very popular. It is 1½ x 4 x 12 inches in size, and of any desired shade. The mottled color is usually preferred.

We have added a special department to our works for the manufacture of this class of bricks, and are prepared to furnish a variety of shades, both in buff and mottled. We are in position to manufacture special shapes to order, according to designs furnished. We have lately given our special attention to this manufacture, and the location of our works in the midst of the clay beds of Middlesex County, N. J., enables us to secure easily the proper raw materials for the purpose.

We carry a line of samples of the different shades manufactured, and will be pleased to forward same, at any time, upon application.

Our stock sizes of Front Bricks are:

American size, 2¼ x 4 x 8,
Roman size, 2 x 4 x 10,
Pompeian size, 1½ x 4 x 12.

RARITAN HOLLOW & POROUS BRICK CO.,
New York City.

THE JACKSON FIREPLACE FURNACE.

FIGURE 1 is a section of the front elevation, and Figure 2 of a side elevation of a new form of the celebrated Jackson Ventilating Grate that may be adapted to any fireplace, regardless of size or form. It consists of a funnel-shaped fire-pot, *A B C D E*, the portion above the line *B D* serving as a basket for holding the fuel, and the parts below for conveying the ashes through the spout *C* into the ash-pit *F*. The line *B D* represents a series of rocking grate-bars, which can readily be shaken when it is desired to clear the fire of ashes. The lower part or spout, *C*, has fitting obliquely over it a valve, whose hinge is shown at *G*, that can be opened or closed from above, so as to admit or exclude air from below to increase or diminish at pleasure the draught of the fire. This valve, shown as closed in the cut, assumes, when opened, the position shown in the dotted lines. Around this inner shell, above described, there is another of larger diameter and almost similar in shape, which is attached to the inner shell or fire-pot by flanges. This shell with its flanges makes the outer wall of an air-chamber that completely encircles the fire-pot.

The pipe, *M*, is shown as entering the air-chamber thus formed, for the purpose of admitting therein air from outside the house, just as the cold-air box of a furnace delivers out-door air between the inner and outer shell of a hot-air furnace. The flange at the top is perforated with holes, which are fitted with collars for the reception of pipes as shown in *N N N*, etc. (This attachment of hot-air pipes is best shown in Figure 3, which gives a horizontal view of the upper part of the fire-pot, with its rocking grate-bars below.)

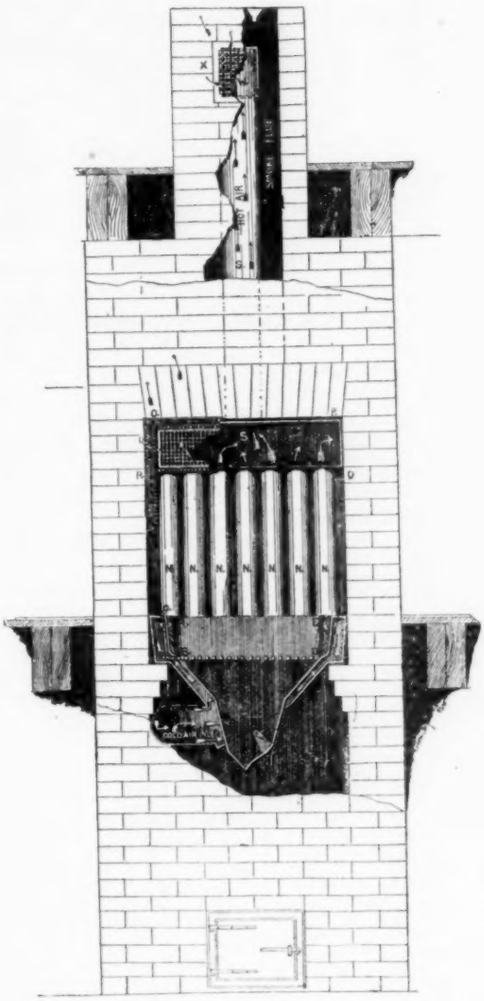


Fig. 1.

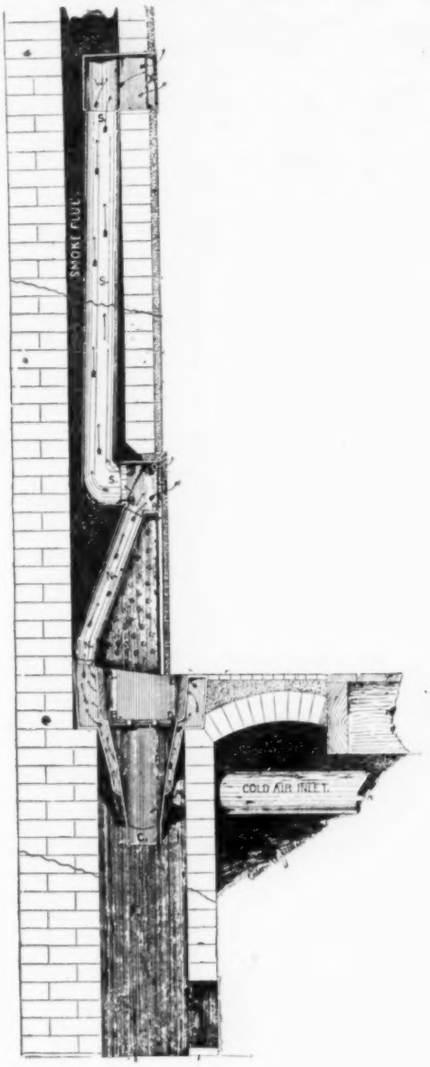


Fig. 2.

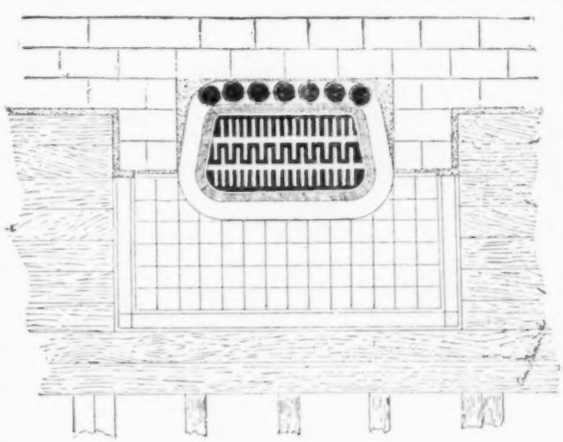


Fig. 3.

The air entering from the hot-air chambers around the fire-pot passes through these pipes immediately over and back of the fire, and is by them emptied into a hot-air chamber, *O P Q R*, the front of which is covered by a register shown in part at *O R*, through which hot air may be admitted into the room in which the grate is situated.

In this hot air chamber, *O P Q R*, at the back there is an orifice, *S*, which opens into a hot-air pipe, *S S*, which traverses the smoke flue as shown in the design, and empties its hot-air into the register box, *W*, which is faced by the register, *X*, for admitting heated air into a room above that in which the grate is placed.

From the fire the unconsumed smoke and the gases formed pass between the hot-air pipes, *N N N*, into the chimney-flue and thence up and out of the chimney, as shown more clearly in the front view, Figure 1.

By this arrangement there is produced an open fire, whose surface, being level with the hearth, and whose fire-pot, being built in the solid brickwork of the chimney, makes it the safest form of heating-apparatus that can possibly be made. It is of such a form that it can be placed *in any fireplace* on the first floor of any house, no matter what the size of such fireplace or the shape of the mantel opening may be. The rocking grate-bars, *B D*, being operated by a lever above, are easily shaken and the ashes thus released drop directly into the ash-pit below, so that there

absolutely cannot a particle of dust enter the room in which the grate is placed. The valve at *C*, operated by a convenient lever, when closed almost entirely shuts off the draught of the fire, so that it becomes a matter most easy to keep a slow fire and one that will not go out, though it have no attention for twenty-four hours or more.

This valve can be adjusted to make a most powerful draught (when an intense fire is promptly required), or a more gentle draught for ordinary use.

The hot-air from the air-chambers may be delivered into rooms on the first, second and third floors; and, as the grate of the ordinary size has the power to comfortably heat 10,000 cubic feet of space, it will nicely heat three good-sized rooms.

Its form is such that it does not interfere with the artistic treatment of the fireplace to suit the fancy of any householder; and, being essentially a furnace of considerable size, placed directly in or under the rooms to be heated, it will give a larger percentage of heat from a given amount of fuel than will any other form of heating-apparatus. Admitting, as it does, heated out-door air into the rooms, it possesses this good quality of the hot-air furnace: exhausting, as it does, the air from the floor of the room in which it is placed, it possesses this ventilating feature of all open fires. Combining the two, it possesses ventilating and sanitary merits that neither the ordinary furnace nor open grates can have, and of which all forms of steam and hot-water heating-apparatus are entirely devoid.

Briefly stated, this grate has the following merits:

1. It will heat three large rooms. It will heat a room back of the grate.

2. It uses less fuel than does any other heating-apparatus that will heat as much space.

3. It can be regulated for slow combustion, so as to give a moderate warmth in fall and spring weather or warm winter days.

4. It can be adjusted to keep a continuous fire without attention for more than twenty-four hours.

5. It can be almost instantly forced into an intense fire, when occasion demands, by simply opening the valve *G*.

6. The hot-air may all be thrown into any one of the rooms with which it is connected.

7. It has the cheery, healthful influence of all open fires. To get warm, a family need not gather around a register in the floor or wall.

8. It furnishes a constant supply of pure, warm air to the room, that cannot fail as long as there is a particle of warmth in the fire.

9. It takes out of the room the air near the floor (always the coolest and always the most impure).

10. Combining these two offices, it does what no other form of heating-apparatus can do: it will keep the air of rooms constantly pure, without the necessity of opening a door or window for that purpose at any time, even though half-a-dozen persons occupy the room.

11. It is absolutely free from dust. No other form of heating-apparatus, excepting steam and hot-water, is so clean, and none is cleaner.

12. It is absolutely safe. The fire being level with the hearth and surrounded with air-chambers, as well as being nowhere near woodwork, there is no other form of heating-apparatus so entirely safe to leave with undoubted security from fire.

It can be put in any fireplace, whether the opening is square, oval or circular, large or small.

It may be set either with or without mantel, with or without tiles.

Any house may be heated with this furnace more economically, more thoroughly and more quickly than by any other furnace.

It may be put in old houses without any cutting of the walls, since all hot-air pipes run through the smoke-flues.

EDWIN A. JACKSON & BRO.,
50 Beekman Street, New York.

TWO BIG PAINT HOUSES TO UNITE.

The negotiations for the consolidation of the two firms of F. W. Devoe & Co. and C. T. Raynolds & Co., the two largest dealers in paints in this country, will be finished in a week or two. These firms do most of the business in paints in the United States. Both firms have offices and factories in New York and Chicago. F. W. Devoe & Co.'s New York offices are at Fulton and William Sts., and C. T. Raynolds & Co.'s at No. 106 Fulton St. The capital of the consolidated company will be about a million dollars and while the name has not been decided on, it will preserve the identity of both firms. The officers of the new company have not been chosen.

The firm of F. W. Devoe & Co. is one of the oldest in the business. In 1857 it was started under the style of F. W. Devoe & Pratt, and in 1865 the partners separated and did business under the names of F. W. Devoe & Co., and Raynolds, Pratt & Co. After twenty-eight years of separation the firms are now to be united again.

J. Seaver Page, vice-president of F. W. Devoe & Co., said to a *Tribune* reporter: "The firms of F. W. Devoe & Co., and C. T. Raynolds & Co., have united again simply for convenience and economy. The largest part of the paint business in the country is done by these two firms, and we can lessen the cost to the producer by this economical arrangement. This is in no sense a trust. You can say that the price of paints will positively not go up and in all probability will be materially reduced as soon as we get in working-order. It is possible that one factory of the consolidated firms will be closed, and in time one of the stores also. Messrs. Raynolds and Molyneaux will enter the corporation. The names of the individual brands of the paints, however, will remain unchanged, so that the consumers will have no trouble in ordering goods. No stock of the new company will be offered for sale. The union of the two firms will enable us to develop important departments of the business by American labor, such as the manufacture of brushes, colors and varnishes."

It is only in the last twelve years that American tube paints have been made and this was made possible only by the duty on importations. Now F. W. Devoe & Co., sell more American tube paints than all the foreign importations put together. Besides, American competition has reduced the price of English paint 33⅓ per cent. The union of the two firms will enable them to sell extensively in European markets, as American ingenuity and machinery is constantly lessening the cost of production.

The asphalt business of the late Edwin H. Wootton will be carried on as before by his former associate Mr. T. H. Boorman.

COLUMBIAN EXHIBITION.

Visitors to the World's Fair or Columbian Exhibition, at Chicago, will certainly be delighted at the beauty of the Art and Horticultural Buildings, and the magnificent display seen therein.

It is not generally known, but it is true nevertheless, that these two structures, of the many put up for the Exhibition, are the only ones to remain permanently and are to become the property of the City of Chicago.

And it will be of interest to all persons of refinement to know that the most recent and best sanitary features — a positive barrier against disease — are used in these two buildings.

This absolute protection against contagion is secured by using the "Beekman Salutary System."

"Salus Populi lex Suprema"

is fittingly adopted by the Company as their motto. The "Beekman Salutary System" is composed of the "Whirlpool," double flushing, absolutely clean closet, and the "Duplex" noiseless cistern.

These were selected for use in the Art and Horticultural Buildings in preference to all others, because they represent the latest advances and contain the best sanitary features of the art.

For further information, catalogue, etc., address,

BEEKMAN SALUTARY SYSTEM CO.,
56 Beekman St., New York, N. Y.

Or Jas. B. Clow & Son, General Western Agents,
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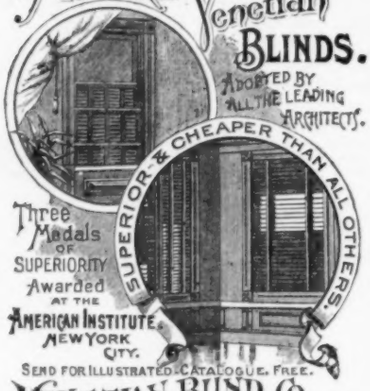

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Reported for the American Architect and Building News.

	New York. (Wholesale Prices.)	Boston. (Wholesale Prices.)	Chicago. (Prices to Builders and Contractors.)	Philadelphia. (Prices to Builders and Contractors.)
BRICK.—₱ M.				In Yard.
Common: *Cargo afloat.*				
Pale	1 75 @ 2 00	Eastern	Building Brick	Sq. Hard @ 9 00
Jersey	4 00 @ 4 75	9 00 @ 10 00	@ 6 50	" @ 7 00
Long Island	@	Bay State Hard		Salmon @ 5 00
Up River	4 00 @ 4 75	7 00 @ 8 00		Sq. " @ 9 00
Haverstraw Bay 2d	4 75 @ 5 00	Domestic Com.	Indiana Pressed	Light Stretchers
" 1st	5 00 @ 5 25	9 50 @ 10 00	14 00 @ 20 00	@ 10 00
Hollow	@ 13 00	Domestic Face	St. Louis Fronts	Medium "
Fronts:		20 00 @ 22 00	@ 27 00	@ 12 00
Croton, Brown	@ 13 00	Philadelphia		Red "
" dark	@ 14 00	40 00 @ 45 00		@ 13 00
" red	@ 14 00	Phila. mould		Dark "
Chicago pressed (Anderson)		50 00 @ 80 00	15 00 @ 27 00	@ 13 00
" Moulded			65 00 @ 350 00	Pressed
Baltimore	37 00 @ 41 00	Anderson	@ 55 00	18 00 @ 20 00
Philadelphia	23 00 @ 24 00	14 00 @ 32 00	45 00 @ 50 00	Best Paving
Trenton	22 00 @ 23 00		45 00 @	@ 14 00
Milwaukee			25 00 @	Second "
Moulded:			60 00 @ 100 00	@ 13 00
Glens Falls Red Pressed	@ 37 00		30 @	Third "
" " Buff "	@ 30 00		35 @	@ 12 00
" " Moulded Red & Buff	45 00 @ 70 00		55 00 @ 65 00	
Enamelled: *Imp.*				
Enamelled (edge)	85 00 @100 00		@ 100 00	Dom. @ 65
Enamelled (edge and end)	90 00 @115 00		@ 120 00	@ 85
CEMENT, LIME, etc.—(₱ *cask.*)				
Rosendale Cement	85 @ 95	1 20 @ 1 40	*Not sold.*	1 30 @ 1 50
Louisville "		Brooks, S. & Co.	1 05 @ 1 30	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	*Not sold.*	2 60 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs)	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	Josson
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	2 60 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover)	2 50 @ 3 00		*Not sold.*	2 75 @ 2 85
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	2 70 @ 3 00
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30
Chicago Lime in bulk		St. John 1 00	55 @	White Mash
Wisconsin Lime			60 @	1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	1 00 @ 1 00
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ *bush.*	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		35 @ 60	75 @ 1 50
Serpentine	@	10 50 per ton	@ 1 00	₱ Perch @ 4 00

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	Wholesale Prices.)	*(Prices to Builders and Contractors,*		
Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in.th.10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	}
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	55 @ 1 00
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	} 50 @ 10 25
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	325 @ 4 00
" " Chapmans	@	@	7 30 @ 8 00	00 @ 4 65
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am ...℔ M.	@	@	*Not Sold.*	@ 25 00
N. Peach Bottom, warranted unfading	@	@	@	6 00 @ 6 75
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	@ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	40 @ 41	57 @ 60	@ 60
" " boiled. (℔ gal.)	58 @ 65	43 @ 44	60 @ 63	@ 63
Turpentine (℔ gal.)	36 @ 37	@ 34	51 @ 51	@ 44
Varnish, coach (℔ gal.)	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac (℔ gal.)	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty ... ℔	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting } dry.	75 @ 1 00	1 @ 1½	1 @ 1½	1 @ 1
Paris white, (Eng.) } dry.	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am } dry.	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt) } dry.	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber " } dry.	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask
Butts: 4" x 4" ...(℔ doz. pairs.)	@ 1 00	@ 1 20	@ 90	2 90 (all kinds.)
Plain	@ 1 50	@ 1 75	*Not Sold.*	@ 90
Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 00
Acorn, Japanned	@ 65	@ 50	*Not Sold.*	1 35 @ 2 75
Ball Tip, Boston Finish ...(℔ pair.)	@ 1 90	plain 1 65	2 00 @ 3 25	48 @ 50
Bronze metal	@ 10	@ 10	@ 12	@ 1 25
Brass (for cupboards.)	@	@	@	@ 1 00
Ebony	@	@	@	@ 35
Apple wood	@	@	@	37 @ 1 00
Knobs: (℔ *set.*)	@ 8	@ 8	8 @ 10	@ 08
Mineral, best	@ 50	@ 75	65 @ 80	*Not Sold.*
Lava	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Hemacite	@ 30	@ 10	25 @ 30	@ 25
Porcelain	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, solid	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Glass, silvered	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Bronze metal	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Brass		@	13 @ 16	13½ @ 16
Solder:		@ 7½	@ 7	@ 6½
Sheet Lead		@ 6½	@ 6½	6 @ 6
Lead Pipe				
Iron:				
I-Beams, up to and including 36 ft	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ¼, ½, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 4-10	3 20 @ 3 70	@ 2 8-10

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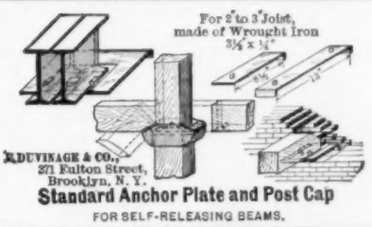

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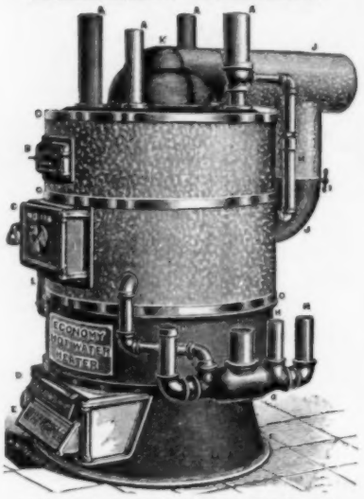

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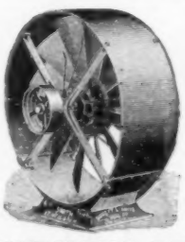

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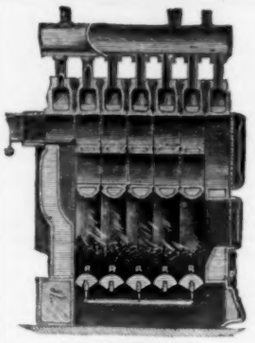

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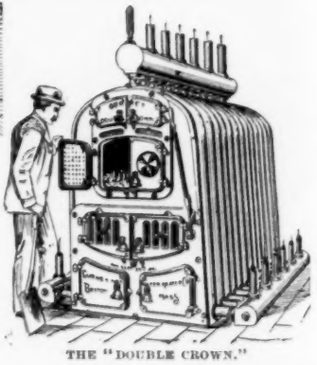

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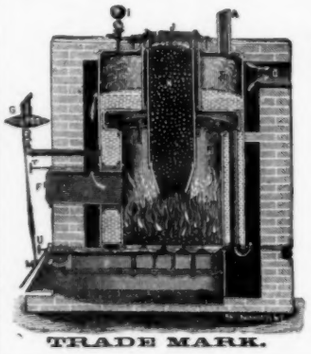

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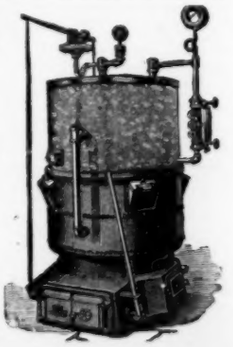

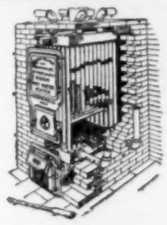

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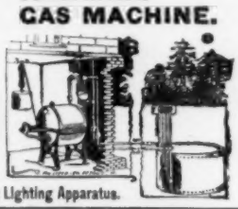

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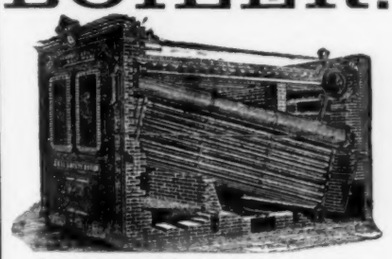

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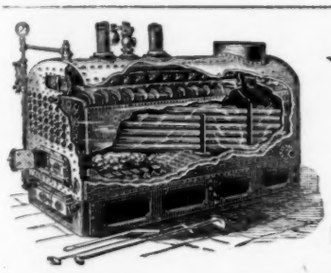

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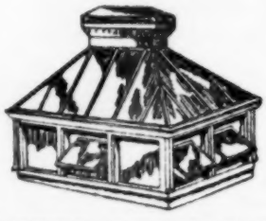

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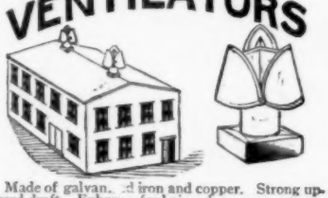

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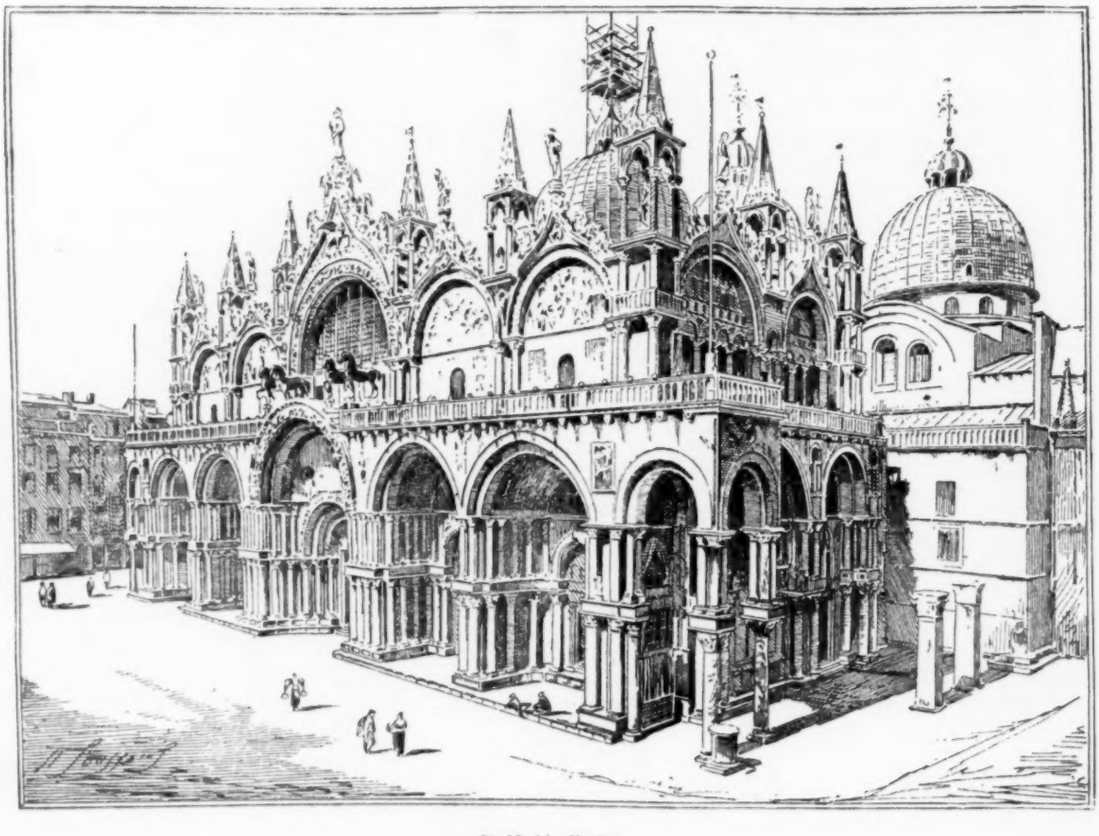

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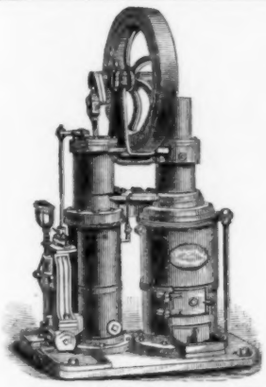

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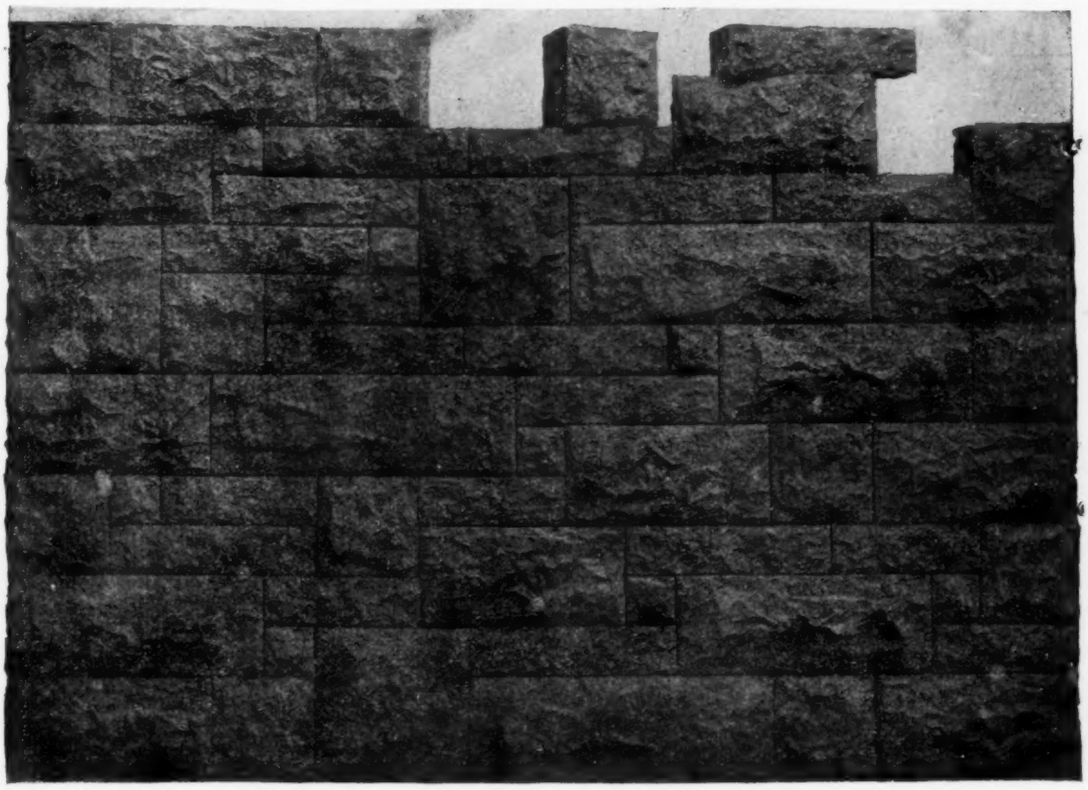

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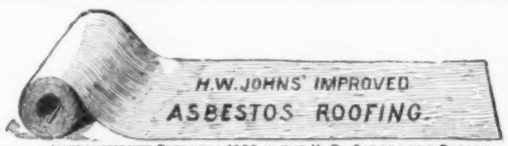

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From Minatitlan. — Schooner "*Jessie Lena*," 670 logs cedar and mahogany, Seaboard Lumber Co.

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(*Continued on page xv.*)

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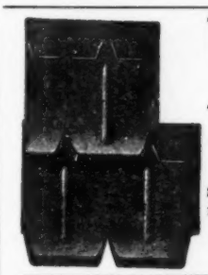

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BUILDING INTELLIGENCE.

C. Wolcott, three-st'y dwell., 481 Forty-sixth St.; cost, $3,500.

E. S. Blake, two-st'y dwell., 1275 Palmer St.; cost, $3,500.

W. E. Tegtmeyer, two-st'y dwell., 1833-1835 Belmont Ave.; cost, $6,000.

Lester Lewis, 2 three-st'y dwells., 5601-5603 Madison St.; cost, $15,000.

George Blossom, two-st'y dwell., 4858 Kenwood St.; cost, $8,000.

The Rev. M. T. Macken, two-st'y dwell., 1517-1519 Sixty-seventh St.; cost, $3,800.

J. Hirch, two-st'y dwell., 417 Marshfield Ave.; cost, $6,000.

A. Biggs, two-st'y dwell., Pleasant Ave. and Ninety-third St.; cost, $4,000.

Louis Keefer, 5 three-st'y dwells., 3916 Prairie Ave.; cost, $60,000.

M. S. Wheeler, three-st'y dwell., 4614-4616 Woodlawn Ave.; cost, $18,000.

E. R. Davis, 2 two-st'y dwells., Cuyler St. and Hoyne Ave.; cost, $3,800.

F. Cook, two-st'y dwell., 527 Addison St.; cost, $4,000.

Edward Snyder, two-st'y dwell., 5625 Monroe St.; cost, $4,500.

Grand Rapids, Mich. — *Lyon St.*, two-st'y frame dwell.; cost, $6,500; owner, Mrs. Wm. Bemis; builders, Richens & Stearns; architect, W. G. Robinson.

Sheldon St., two-st'y frame dwell.; cost, $5,000; owner, Reuben Hatch; architect, W. G. Robinson.

Lexington, Mass.—Frame dwell., 32x' x 58'; owner, Prof. Webster Wells; contract to be let; architect, Edwin J. Lewis, Jr., Boston.

Longue Pointe, Que. — Dwell.; owner, Arthur Caron; architect, Casimir St. Jean, 180 St. James St.

Malden, Mass. — *Alpine St.*, frame dwell., 27' x 52'; owner, Arthur W. Walker; builder, Alex. Grant; architect, Edwin J. Lewis, Jr., Boston.

Minneapolis, Minn. — L. D. Parker, two-st'y stone veneered dwell., 233 Oak Grove St.; cost, $10,000.

T. S. Pillsbury, two-st'y brick veneered dwell., 425 Tenth Ave., s e; cost, $11,000.

Montreal, Can. — *Sherbrooke St.*, private dwell.; owner and architect, A. Gendron, 99 St. James St.

Dorchester St., block of dwells., apartments; architect, Wm. H. Hodson, 242 St. James St.

Church St., two dwells.; owner, Authime Guenette; architect, J. Alcide Chausse, 153 Shaw St.

St. Hubert St., three-st'y dwell.; owner, J. J. Beauchamp; architect, L. R. Montbriant, 42 St. André St.

Sanguinet St., four-st'y dwell.; owner, Joseph Girorx; architect, L. R. Montbriant, 42 St. André St.

St. Charles-Borrommee St., 3 four-st'y dwells.; owner, Chas. Frechette; architect, Casimir St. Jean, 180 St. James St.

Seymour Ave., 2 three-st'y cottages; owner, Peter Gillespie; architect, A. Gendron, 99 St. James St.

Upper Lachine Road, two villa cottages; architect, C. T. Ballard, 114 St. James St.

Sherbrooke St., four-st'y dwell.; owner, C. E. Leclerc; architect, Gaudias Seinard, 1585 St. Catherine St.

Wolfe St., nine dwells.; owner, Charles T. Brian; architect, R. L. Montbriant, 42 St. André St.

Bleury St., two dwells. and stores; owner, T. W. McCoy; architects, Perreault & Lesage, 17 Place d'Armes Hill.

Hutchison St., five cottages; owners, Masson Estate; architects, Perreault & Mesnard, 17 Place d'Armes Hill.

New York, N. Y. — *One Hundred and Forty-second St.*, s s, 275' e Grand Boulevard, six private dwells.; cost, $80,000; architect, John A. Hamilton.

Edgecombe Ave., w s, three brownstone dwells.; cost, $30,000; owner, F. Grasmuck; architect, Wm. A. O'Hea.

One Hundred and Fourth St., n s, 100' e Riverside Drive, 5 three-st'y brick dwells., tin roofs; cost, $85,000; owner, John Welker, 506 West One Hundred and Sixty-eighth St., and Geo. A. Fisher, 695 East One Hundred and Forty-first St.; architect, M. V. B. Ferdon, 265 West Thirty-fourth St.

One Hundred and Fifty-eighth St., s s, 318' w Courtland Ave., three-st'y stone and frame dwell., tin roof; cost, $4,500; owner and architect, Gustav Schwarz, 578 East One Hundred and Fifty-second St.

One Hundred and Fifty-eighth St., s s, 338' w Courtland Ave., three-st'y stone and frame dwell., tin roof; cost, $4,500; owner, Frederick Hold, 578 East One Hundred and Fifty-second St.; architect, Gustav Schwarz, 578 East One Hundred and Fifty-second St.

Jerome Ave., e s, 115' 7" s Van Courtland Ave., three-st'y brick and frame dwell.; tin roof; cost, $4,000; owner, Frank Pistone. Willow Ave. and Van Courtland Ave.; architect, Henry Ceburne, Elizabeth St., Williams Bridge.

Seventy-second St., n s, 225' e West End Ave., 3 four-st'y brick dwells., tin roofs; cost, $12,000; owner, Joseph W. Stokes, 37 West Ninety-sixth St.; architect, Lamb & Rich, 265 Broadway.

Hudson St., *No.* 221, two-st'y brick dwell., gravel roof; cost, $3,000; owner, E. G. W. Woerz, 1 East Sixty-third St.; builders, J. & L. Webber, 26 East Twenty-third St.

One Hundred and Sixty-fourth St., s w cor. Railroad Ave., 5 three-st'y brick and frame dwells., tin roofs; cost, $25,000; owner, Auke Dooper, 625 East One Hundred and Fiftieth St.; architect, Anthony F. A. Schmitt, 696 Courtlandt Ave.

One Hundred and Eighty-second St., s s, 25' w Audobon Ave., 7 three-st'y brick and frame dwells., tin and tile roofs; cost, $35,000; owners, Lowe & Mainhart, 621 West One Hundred and Eighty-first St. and 40 West One Hundred and Twenty-eighth St.; architect, J. Averit Webster, 217 West One Hundred and Twenty-fifth St.

Eighty-seventh St., n s, 325' w West End Ave., 4 four-st'y brick dwells., mansard tin roof; cost, $58,600; owners, Wm. C. Hill, President City R. E. Co., 323 West Eighty-seventh St.; architect, Charles P. H. Gilbert, 18 Broadway.

Seventy-fifth St., n s, 236' w Central Park, West, four-st'y brick dwell., tin roof; cost, $30,000; owner, Charles L. Hadley, 79 Courtlandt St.; architects, Lamb & Rich, 265 Broadway.

Ninety-fifth St., s s, 199' w Central Park, West, 4 three-st'y brownstone dwells.; cost, $60,000; owner; M. A. Cockburn; architects, Neville & Bagge.

Northampton, Mass. — *Elm St.*, frame dwell., 46' x 56'; owner, Mrs. Marion P. Bridgman; contract to be let; architect, Edwin J. Lewis, Jr., Boston.

STABLES.

Philadelphia, Pa.—*Sixteenth St.*, n e cor. Allegheny Ave., one-st'y brick stable; owner, H. Barnett, Sixteenth St., cor. Allegheny Ave.

Clementine St., *No.* 1932, two-st'y brick stable; builder, Charles Getchell, 2042 Wishart St.

Locust St., s s, bet. Thirtieth and Thirty-first Sts., two-st'y stone and brick stable; contractor, A. A. Campbell, 2012 Poplar St.

Buist Ave., s s, bet. Seventy-eighth and Seventy-ninth Sts., two-st'y brick stable; owner, Charles Knorr, Seventy-ninth St. and Buist Ave.

Brooklyn St., e s, s Ogden St., two-st'y brick stable; builder, W. J. McCloskey, 3964 Wallace St.

Germantown Ave., e s, n Wistar St., one-st'y stone stable; owner, H. D. Benner, 4547 Main St.

Moore St., s s, e Emerald St., one-st'y brick stable; builders, Thomas Matthews, 2334 Hancock St.

Hutchinson St., *No.* 1516, three-st'y brick and stone stable; builder, S. R. Riley, 627 Filbert St.

Marshall St., *No.* 1233, two-st'y brick stable; owners, C. C. Hartman & Sons, 1229 Marshall St.

Pennsylvania Railroad, e Tucker St., one-st'y frame and brick stable; owner, Knickerbocker Ice Co., 600 Arch St.

Juniper St., bet. Spruce and Pine Sts., three-st'y brick stable; builder, A. S. Tourison, 5541 Germantown Ave.

Pulaski Ave., e s, n Queen St., two-st'y stone stable; builder, M. D. Whartman, 48 Mechlin St.

Mt. Airy Ave., s s, w Mayer St., two-st'y brick stable; owner, James Rinker, Levering St.

Woodland Ave., *No.* 3323, two-st'y brick stable; owner, James T. Riley, 3323 Woodland Ave.

Botanic St., e s, bet. Seventy-fifth and Seventy-sixth Sts., two-st'y frame stable; builder, W. J. Drummond, 1719 Carpenter St.

Hermit St., s s, bet. Terrace and Cresson Sts., two-st'y brick stable; owner, John R. McNutt, 3835 Cresson St.

Grausback St., e s, n Indiana Ave., two-st'y brick stable; builder, Benjamin Wetzell, 3049 D St.

Doner St., *No.* 2403, one-st'y stable; builder, Chas. A. Warfield, 1807 North Twenty-second St.

Twenty-third St., w s, n Filbert St., three-st'y brick stable; owners, Quaker City Mortar Co., 50 North Twenty-third St.

Twenty-seventh St., e s, n Diamond St., two-st'y brick stable; builder, O. A. Guenther, cor. Diamond St. and Sedgeley Ave.

Sherman St., s w cor. Frankford Road, brick stable; builder, J. D. Caldwell, 205 Wistar St.

Courtland St. and Second St. Pike, two-st'y frame stable; owner, Alfred Neeld, Second St. Pike and Courtland St.

Comley St., s s, e Cottage St., one-st'y frame stable; owner, H. Stoop, Comley St.

Bristol Pike, w s, n Dark Run Lane, frame stable; owner, G. W. Downs, Bristol Pike, n Dark Run Lane.

South Eighth St., rear, No. 517, two-st'y brick stable; owner, P. Loder, 577 South Eighth St.

Cottage St., w s, s Ashbruner St., two-st'y brick stable; builder, Samuel B. Travis, Holmesburg, Pa.

New Upsal Station, Pa. R. R., one-st'y stone stable; owner, S. L. Hoover, 703 Jayne St.

Cabot St., *No.* 1626, two-st'y brick stable; builder, Andrew Moore, 2310 Spring Garden St.

Edmund St., n s, w Unruh St., two-st'y brick stable; builder, Sidney King, Tacony.

Summit St., s s, e Flourtown Road, two-st'y brick stable; contractor, George S. Roth, East Union Ave.

STORES.

Brooklyn, N. Y. — *Lorimer St.*, n e cor. Jackson St., three-st'y frame store and dwell., tin roof; cost, $5,000; owner, architect and builder, Joseph Frisse, 19 Ten Eyck St.

Bogart St., s w cor. Stagg St., 5 three-st'y stores and dwells., tin roofs; cost, $22,000; owners and builders, Schuh Bros., Stagg St.; architects, D. Acker & Son, 752 Broadway.

St. Marks Ave., s w cor. Washington Ave., four-st'y brick store and dwell., tin roof; cost, $9,000; owner, Mrs. Mary Brown, St. Marks and Underhill Aves.; architect, W. M. Coots, 189 Montague St.; builders, Leonard Bros., 735 Bergen St.

Moore St., *No.* 15, five-st'y brick store and dwell., tin roof; cost, $8,000; owners, Simon & Meyer, East

(*Continued on page* xix.)

THE following Report by Prof. J. S. Newberry, Professor of Geology and Paleontology in the Columbia College School of Mines, in which he has established a museum of 100,000 specimens of rare value, should be given due weight as being the opinion of the highest living authority upon the subject of which he writes.

Dr. Newberry was born in Windsor, Ct., December 23, 1822. He graduated from Western Reserve College in 1846, and from the Cleveland Medical College in 1848, spent two years in study abroad, and then began the practice of medicine in Cleveland, where he remained until 1855.

During this year he was appointed acting Assistant-Surgeon and Geologist to the party, which under Lieut. Robert S. Williamson, explored the country between San Francisco and the Columbia River. He assisted Lieut. Joseph C. Ives in the exploration of the Colorado River, and was with Capt. John N. Macomb, on the San Juan and Upper Colorado Rivers. In 1859 Prof. Newberry travelled over the plains of Southern Colorado, Utah, Northern Arizona and New Mexico.

In 1866 Prof. Newberry was elected Professor of Geology and Paleontology in the Columbia College School of Mines. In 1869 he was appointed State Geologist of Ohio.

Seven years ago he was appointed paleontologist to the United States Geological Survey, having charge of the investigation of fossils, botany and fishes. Western Reserve College conferred the degree of LL. D. upon him in 1867. In 1888 the Geological Society of London presented him with the Murchison gold medal. He is a member of the Scientific Societies of America and Europe, was named by Congress one of the corporate members of the National Academy of Science, has been President of the American Association for the Advancement of Science, and of the New York Academy of Science since 1867, and is President of the Torrey Botanical Club.

Dr. Newberry is the author of more than two hundred titles, and stands in the front rank of the mining experts of the world.

The Potsdam Sandstone from the quarries of the Potsdam Red Sandstone Company, has been used so extensively by builders of the United States and Canada, and its reputation is so well established, that it might seem that no further word was needed on this subject. It has been under my observation for many years in the public buildings at Ottawa, Canada, and elsewhere, and more particularly in the recently constructed buildings of Columbia College, New York. I had subjected the stone used at Columbia to microscopic observation, chemical analysis and physical tests, at the time when the choice of stone was under consideration by our architect. From these experiments I had learned as I supposed all that it was necessary to know about the stone, viz: that it was a dark red banded sandstone, having a resistance to a crushing force of 17,000 to 18,000 pounds per square inch; that it consisted of silica with a slight ingredient of iron, from which it took its color, and preferable so far as strength, homogeneousness and durability were concerned to any other sandstone known to me. I therefore unhesitatingly recommended its use, and I have never since had occasion to change my mind in regard to its superiority. Still, when I went over the ground and examined the stone in place, and noticed the marked difference in the stone of the different quarries of this company, and especially when I had subjected a new series of specimens to tests for physical strength, I found that I had much to learn in regard to its variety and excellence.

In the first place I discovered that instead of one, there are at least three marked varieties of this stone, possessing different degrees of strength and shades of color, affording to the architect a means of securing a range of effects, when used either singly or in combination. Also, that the stone which we had used at Columbia, though possessing greater strength than any sandstone submitted to trial, was far surpassed in this respect by some of the other varieties attainable, and that the strongest not only exceeded in strength all other varieties of stone tested at the School of Mines, but even resisted the full crushing force of the powerful Emery testing-machine, which we have recently had constructed, and which was supposed to be capable of reducing to powder any building stone submitted to its action. The resistance to crushing force in the specimens tested, varied from 18,401 pounds to the square inch to 42,804, or rather to and beyond the extreme crushing force of our machine; for it was found impossible to overcome with the machine the resistance of two inch cubes of the strongest stone, although the pressure was carried up to 151,000 pounds. Hence we can say that the resistance to crushing force, of the strongest variety, exceeds 42,000 pounds to the square inch, a result greater than we have obtained from tests on granite of any kind, from trap or any other variety of building stone.

The element of beautv is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C.

As I have said, I was surprised to find in the different quarries of this Company so many varieties of color in the stone. In the west quarries, the typical "Red Potsdam," either plain or banded, prevails. On their southern tracts are outcrops of homogeneous and monochrome, chocolate-colored stone in heavy ledges, which will yield blocks of any desired size, while in their quarries on the east side are exposed about fifty feet of rather massive layers, separated by a band of fifteen feet of foundation orbri dge stone. The upper and lower bands composing the fifty feet referred to, are mainly of light colored homogeneous stone, to which I was a stranger before visiting the quarries. This is of a reddish cream-color, very uniform in tint and pleasing to the eye. It comes out in layers from two to six feet in thickness and splits with ease and certainty in any direction. With the chocolate-colored stone, to which reference has been made it may be combined with fine effect, one variety being used for trimming to the other, as corner stones, door and window caps, porches, etc., or associated as block stones in plain walls.

This cream-colored variety works with comparative ease, and may be wrought into moulding and ornaments, much more cheaply than the harder varieties, which will be best used when hammer dressed, a style of treatment to which every phase of the stone will lend itself, as it breaks true and even under the hammer.

The different tracts of land controlled by this Company comprise about two hundred acres, distributed for about a mile up and down Racquette river, and selected with judgment so as to embrace the best outcrops of stones found in the district. On all these tracts the Potsdam sandstone is practically the surface rock, being covered only with a layer of greater or less thickness of boulder clay. In quantity, therefore, the quarries are practically inexhaustible, and it is not too much to say that they may be worked for centuries without embarrassment.

J. S. NEWBERRY.

The stone from the quarries of this Company is unexcelled for beauty of color and effect. As the only way that architects can get an idea of the color of the stone is by inspection of a sample, we shall be glad to forward samples and full information to architects who may apply for the same.

POTSDAM RED SANDSTONE CO.,

POTSDAM, N. Y.

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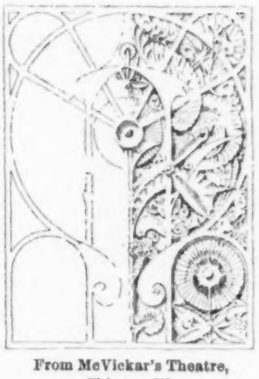
St. George and the Dragon,
by A. Dürer.



From McVickar's Theatre,
Chicago, Ill.

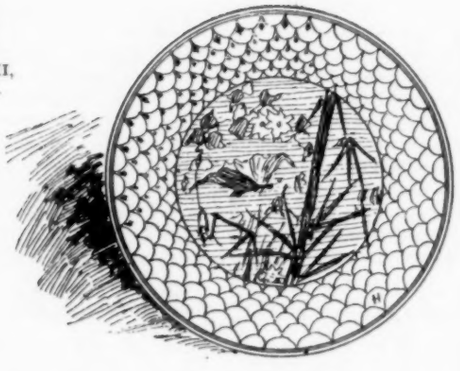
A Sienese Stuff.

Design by Herr Storck.

Cross of Justinian II,
Vatican Museum.

From the Tomb of the Cardinals
d' Amboise, Rouen.

Persian Design.



Japanese Design.

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BOSTON.

BUILDING INTELLIGENCE.

Broadway, New York City; architect, Hugo Smith, 10 Moore St.

Siegel St., No. 40, five-st'y brick store and dwell., tin roof; cost, $5,500; owner, S. Simon, Boerum St.; architect, Hugo Smith, 10 Moore St.

Siegel St., n s, 46′ w Ewan St., five-st'y brick store and dwell., tin roof; cost, $8,000; owner, Samuel Kassell, Siegel and Ewan Sts.; architect, Hugo Smith, 10 Moore St.

Thirty-second St., n e cor. Fourth Ave., three-st'y brick store and dwell., tin roof; cost, $6,000; owner, Harry Stout, 14 Sixteenth St.; architect, Thomas Bennett, 211 Fifty-seventh St.

Henry St., No. 43, four-st'y brick store and dwell., gravel roof; cost, $8,100; owner, Peter McGrath, 43 Henry St.; architect, J. G. Glover, 186 Remsen St.

King St., s w cor. Conover St., 4 four-st'y brick stores and apartment-houses, tin roofs; total cost, $35,000; owner, C. Plate, on premises; architect, R. H. Sailor, on premises; builder, D. J. Lynch, 97 Partition St.

Alabama Ave., n w cor. Sutter Ave., three-st'y frame store and dwell., tin roof; cost, $4,500; owner, Chas. Hauptner, 1280 Broadway, New York City; architect, Geo. E. Potter, 364 Vernon Ave., Long Island City.

Cooper St., s s, 50′ e Evergreen Ave., 2 three-st'y frame stores and dwells., tin roofs; cost, $3,800; owner, C. Wehr, 1355 Bushwick Ave.; architect, B. Finkensiefer, 93 Broadway.

Chicago, Ill. — Richard Walsh, two-st'y store and flats, 711 Thirty-seventh St.; cost, $5,500.

Thomas H. Scholl, two-st'y store and flats, Ninety-third St. and Jefferson Ave.; cost, $3,000.

John McElvain, three-st'y store and flats, 4649 Wentworth Ave.; cost, $4,000.

William Rauen, 2 five-st'y stores and flats, 416-418 East North Ave.; cost, $25,000.

Oscar Cobb, three-st'y store and flats, 1722 Sherman Pl.; cost, $4,800.

Louis and Florence Cusilo, two-st'y store and flats, Madison and Seventy-fifth Sts.; cost, $10,000.

Albert E. Schrieber, four-st'y store and flats, 206 North Morgan St.; cost, $10,000.

E. D. Murray, 3 four-st'y stores and flats, South Chicago St. and Cottage Grove Ave.; cost, $20,000.

Alson Baker, 3 three-st'y stores and flats, 834-838 Root St.; cost, $10,000.

F. J. Little, two-st'y store and flats, 9433 Commercial St.; cost, $3,000.

Charles Touton, four-st'y store and flats, 304 Sedgewick St.; cost, $10,000.

E. C. Michaels, 5 three-st'y stores and flats, 3600-3608 State St.; cost, $10,000.

Michael Shanley, three-st'y store and flats, 586 West North Ave.; cost, $9,000.

John Wagner, two-st'y store and flats, 773 Northwestern Ave.; cost, $5,000.

C. E. Krentzberger, four-st'y store and flats, 2956 Wallace St.; cost, $8,200.

J. H. Green, three-st'y store and flats, 1452 Van Buren St.; cost, $5,000.

C. A. Anderson, two-st'y store and flats, 10002 Avenue Y; cost, $5,500.

W. R. Keasey, 2 two-st'y stores and flats, 7339-7341 Cottage Grove Ave.; cost, $4,000.

P. Karns, three-st'y store and flats, 307 West Indiana Ave.; cost, $5,000.

Montreal, Can. — *Notre Dame St.*, three stores and dwells.; owner, Estate J. L. Beaudry; architect, Gaudias Simard, 1585 St. Catherine St.

Notre Dame St., cor. Amherst St., three-st'y stores and dwell.; cost, $18,000; owner, Estate of J. L. Beaudry; architect, Gaudias Simard, 1585 St. Catherine St.

St. James St., stores and offices; owners, The Royal Electric Co.; architect, W. McLea Wallbank, 214 St. James St.

Notre Dame St., 2 four-st'y stores and flats; owner, Dr. L. O. Thayer; architects, Perreault & Mesnard, 11 Place d'Armes Hill.

New York, N. Y. — *Bond St., No.* 211, six-st'y brick store, tin roof; cost, $38,000; owner, Leon Tannenbaum, 161 East Sixty-fourth St.; architects, Buchman & Deisler, 8 West Twenty-ninth St.

Seventy-fifth St., n s, *Seventy-sixth St.*, s s, 473′ e Avenue C, six-st'y brick store, asphalt and gravel roof; cost, $100,000; owner, The Farmers Feed Co., 162 East Ninety-third St.; architect, Frank Wennemeir, 204 East Eighty-sixth St.

West Twenty-second St., Nos. 53-57, six-st'y brick and stone store; owner, James McCreery.

Greenwich St., No. 464, five-st'y brick store, tin roof; cost, $15,000; owner, Samuel Crooks, 351 West Twenty-ninth St.; architect, Charles S. Clark, 719 East One Hundred and Seventy-seventh St.

Philadelphia, Pa. — *Market St., No.* 927, five-st'y stone store; contractors, Kister & Orem, 129 South Seventh St.; owner, H. C. Lea.

St. Louis, Mo. — Three-st'y brick store and office-building; cost, $15,000; owner, Chas. F. Bates; contractors, Goesset & Remmers.

MISCELLANEOUS.

Charlottesville, Va. — The Board of Visitors of the University of Virginia have decided to build a $25,000 gymnasium.

Chicago, Ill. — C. F. Elmers, two-st'y foundry, 251-261 Fulton St.; cost, $20,000.

Mutual Fuel Gas Co., gas tank and holder, 216-228 Fortieth St.; cost, $30,000.

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BUILDING INTELLIGENCE.

C. Casselman, four-st'y tannery and boiler-house, Elston Ave. and Bradley St.; cost, $3,500.

College of Physicians and Surgeons, five-st'y laboratory, 817 West Harrison St.; cost, $25,000.

Pennsylvania Company, one-st'y oil house; cost, $19,000.

Nicholas Mann, five greenhouses, Clark and Bryn Mawr Sts.; cost, $3,000.

Brooklyn, N. Y. — *Ralph Ave.*, n w cor. Bergen St., one-st'y frame Sunday-school, tin roof; cost, $3,500; owner, Calvary Baptist Society, Decatur St. and Sumner Ave.; architect, C. P. Sketon, 296 Sixth Ave.

Seigel St., No. 40, five-st'y brick tailor shop, tin roof; cost, $4,000; owners, Simon & Meyer, East Broadway, New York; architect, Hugo Smith, 27 Moore St.

Third Ave., w s, 170′ n Second St., one-st'y brick electric power station, old Bangor slate roof; cost, $50,000; owner, Atlantic Ave. Railroad Co., cor. Atlantic and Third Aves.; engineer and architect, L. H. McIntire, 2389 Third Ave., New York City; builder, John Blixt.

Watkins St., e s, 100′ s Eastern Parkway, 4 two-st'y frame tailor shops. *Rockaway Ave.*, e s, 175′ s Belmont Ave., 2 two-st'y frame tailor shops, and *Rockaway Ave.*, e s, 325′ n Gates Ave., 3 two-st'y frame tailor shops, tin roofs; cost, $1,000 each; owners, Scheinfeld & McCourt, Levonia Ave., near Thatford St.; architect, A. J. Warren, 2583 Atlantic Ave.

Summit St., n s, 30′ e Hamilton Ave., four-st'y brick horseshoeing shop and dwell., tin roof; cost, $7,000; owner, Alex. Corcoran, on premises; architect and builder, D. J. Lynch, 97 Partition St.

North Thirteenth St., s s, 125′ e Kent Ave., two-st'y frame cooper shop, gravel roof; cost, $3,000; owner, James Coughran, 77 Berry St.; architect, H. A. Akerly, 113 Berry St.

Dean St., n s, e Hopkinson Ave., three-st'y brick bakery and laundry, tin roof; cost, $15,000; owner, House of the Good Shepherd, Hopkinson Ave. and Pacific St.; architect, Thos. F. Houghton, 340 Fulton St.

Fifth Ave., s e cor. Twenty-third St., two-st'y brick car-house, gravel roof; cost, $18,000; owners, Atlantic Ave. Railroad Co., Atlantic and Third Aves.; architect, J. G. Glover, 186 Remsen St.

Fort Greene Pl., No. 172, two-st'y brick mutton house, gravel and slate roof; cost, $7,000; owners, G. F. & E. C. Swift, 105 Barclay St., New York City; architect, J. G. Glover, 186 Remsen St.

Atlantic Ave., s s, 200′ w Carlton Ave., 2 two-st'y brick produce buildings, gravel roofs; total cost, $8,500; owner, Wm. B. Phillips; architect, Long Island Railroad Co.'s architect, L. I. R. R. depot.

Irving St., n s, 250′ e Van Brunt St., 4 one-st'y brick buildings, gravel roofs; cost, $5,000; owners, Marx & Rawolle, Van Brunt and Irving Sts.; architect, Geo. P. Chappell, 24 State St., New York City.

Forty-seventh St., s s, 200′ e Third Ave., one-st'y frame Sunday-school, tin roof; cost, $4,000; owner, Trustees of the Forty-seventh St. Baptist Church, Forty-seventh St. and Third Ave.; architects, H. L. Spicer & Son, Third Ave. and Fifty-third St.

Cincinnati, O.—Fountain Square Theatre Co., foundation, Lodge Alley; cost, $4,700; architect, James W. McLaughlin.

E. L. Anderson, one-st'y frame riding school; cost, $2,500; architects Aikem & Ketchum.

Rheinstrom Bros., two-st'y brick and stone storage rooms, Martin St.; cost, $5,000; architect, G. T. Neiber.

Minneapolis, Minn. — Minneapolis, St. Paul and Kansas City Railroad, one-st'y brick depot and baggage room, Tenth Ave., s, and Washington St.; cost, $8,000.

Montreal, Can.— *Phillips Square*, art-gallery; owners, The Art Association of Montreal; architects, Gordon & Taylor, 43 St. François Xavier St.

St. James St., bank-building; owner, W. L. Rutherford; architect, W. McLea Wallbank, 214 St. James St.

New York, N. Y. — *First Ave.*, near Thirty-eighth St., six-st'y brick and stone brewery; owner, O. Skelly; architects, F. Lederle & Co.

Girard Ave., e s, 460′ s One Hundred and Forty-sixth St., three-st'y brick workshop, felt, cement and gravel roof; cost, $11,500; owner, John F. Allen, 629 Wooster St.; architect, H. S. Baxter, 429 East One Hundred and Thirty-eighth St.

North Cambridge, Mass.—*North Ave. and Walden St.*, four-st'y brick and stone Odd Fellows' Hall, stores, hall and offices, flat roof, 75′ x 113.6′; owner, Mt. Sinai Building Association; builder, Mr. Stearns; architect, G. Leslie Nichols, Boston.

Philadelphia, Pa. — *Highland Ave.*, cor. Twenty-seventh St., two-st'y police station; contractor, Jas. Bradley, 40 North Thirty-eighth St.

Providence, R. I. — *Mathewson St.*, three-st'y e s, brick building for stores and offices; cost, $15,000; owners, L. A. Tillinghast & Co.

Lockwood St., s s, e Plain St., three-st'y brick building for Nurses Home; owner, Rhode Island Hospital; architects, Stone, Carpenter & Willson; builders, H. L. Bassett & Co.

Union St., three-st'y brick building for Rhode Island Telephone Co.; architects, Stone, Carpenter & Willson.

Manning St., n e cor. Thayer St., two-st'y brick building for College Society purposes; owner, Lincoln Library Association; architects, Hoppin, Read & Hoppin; builder, N. B. Horton; cost, $12,000.

Clifford St., n w cor. Page St., three-st'y brick building for gold and silver refinery; cost, $6,000; owner, Geo. M. Baker.

Broad St., s w cor. Calla St., three-st'y frame building for stores and tenement; cost, $4,000; owner, C. F. Bowen; builder, F. I. Barrett.

Scranton, Pa. — Four-st'y stone building, slate roof, to be known as the Oral School for Deaf Mutes of Pennsylvania; architect, Theophilus P. Chandler, Jr., Brown Bros. Building, Chestnut St., cor. Fourth St., Philadelphia, Pa.

COMPETITION.

PUBLIC LIBRARY.

[At Charlestown, N. H.]

The committee appointed to build a public library at Charlestown, N. H., is prepared to consider architectural designs for a library building to be constructed of brick. Cost of building must not exceed $7,000.

GEO. OLCOTT,
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PROPOSALS.

MARBLE-WORK.

[At Boston, Mass.]

OFFICE OF CHARLES BRIGHAM, ARCHITECT,
27 MT. VERNON STREET, BOSTON, MASS.

Sealed proposals will be received at this office **until 12 M. Monday, August 22, 1892**, for materials and labor for the interior marble-work for the Massachusetts State-House Extension.

Plans and specifications for the same may be seen at the office of the architect on and after Monday, August 8, 1892.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

All bids to be marked "Proposals for the Interior Marble-work for the Massachusetts State-House Extension, Boston, Mass."

JOHN D. LONG, BENJ. D. WHITCOMB, WM. ENDICOTT, JR., } State-House Construction Commissioners.

868

IRON AND METAL WORK.

[At Boston, Mass.]

OFFICE OF CHARLES BRIGHAM, ARCHITECT,
27 MT. VERNON ST., BOSTON, MASS.

Sealed proposals will be received at this office **until 12 M. Tuesday, August 16, 1892**, for materials and later for the interior iron and metal work for the Massachusetts State-House Extension.

Plans and specifications for the same may be seen at the office of the architect on and after Wednesday, August 3, 1892.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

All bids to be marked "Proposals for the Interior Iron and Metal Work for the Massachusetts State-House Extension, Boston, Mass."

JOHN D. LONG, BENJ. D. WHITCOMB, WM. ENDICOTT, JR., } State-House Construction Commissioners.

868

PAINTING AND GLAZING.

[At Boston, Mass.]

OFFICE OF CHARLES BRIGHAM, ARCHITECT,
27 MT. VERNON STREET, BOSTON, MASS.

Sealed proposals will be received at this office **until 10 A. M. Friday, August 12, 1892**, for materials and labor required in the painting and glazing for the Massachusetts State-House Extension.

Plans and specifications for the same may be seen at the office of the architect on and after Monday, August 1, 1892.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

All bids to be marked "Proposals for the Painting and Glazing for the Massachusetts State-House Extension, Boston, Mass."

JOHN D. LONG, BENJ. D. WHITCOMB, WM. ENDICOTT, JR., } State-House Construction Commissioners.

868

Treasury Department, Office Supervising Architect, Washington, D. C., August 5, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 1st. day of September, 1892, and opened immediately thereafter, for all the labor and materials required for the trench excavation, foundations, cut stone work and brick work, iron and wood floor, ceiling and roof construction, roof covering, etc., for the United States Post-office building at Fremont, Neb., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Fremont, Neb. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Trench Excavation, Foundations, Cut-stone and Brick Work, Iron and Wood Floor, Ceiling and Roof Construction, Roof Covering, etc., for the United States Post-office building at Fremont, Neb.," and addressed to W. J. EDBROOKE, Supervising Architect.

Proposals for Iron-work. Office of Building for Library of Congress, 145 East Capitol Street, Washington, D. C., August 6, 1892. Sealed proposals for furnishing, delivering and erecting in place, complete, the iron-work of the dome and lantern of the Building for the Library of Congress, in this city, will be received at this office until 2 o'clock P. M. on Thursday, the 25th day of August, 1892, and opened immediately thereafter in presence of bidders. Specifications, general instructions and conditions and blank forms of proposal may be obtained on application to this office. BERNARD R. GREEN, Superintendent and Engineer. 869

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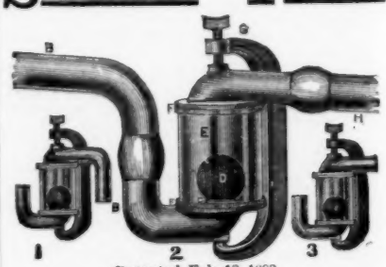

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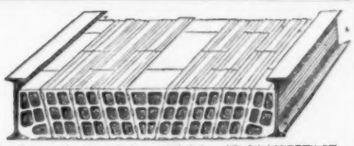
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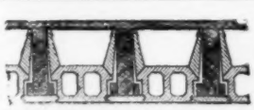
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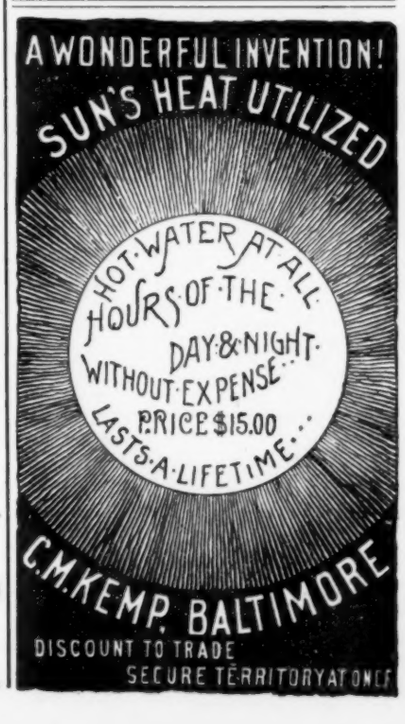

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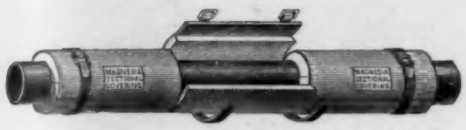

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Paper.	Number of subjects contributed.	Number of contributing architects.	Towns in which contributors were established.	States in which contributors were established.
No I. . . .	214	109	28	16
No. II. . .	137	78	21	15
No. III. . .	118	56	16	11
Am. Architect.	267	152	47	24

In the first column, "subjects," only actual domestic work is included (foreign work, imaginative designs and the work of sketch-clubs are excluded), and the figures there given indicate that this number of designs might have been prepared by the same number of architects practising in the same number of different towns. The remaining columns show how nearly this ideal distribution has been reached in each case.

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Subjects.	Per cent of total number of subjects.	Different architects contributing.	Per cent of total number contributing architects.	Towns.
161	.752	75	.688	7
46	.335	24	.307	2
70	.593	22	.392	1
73	.273	39	.256	3

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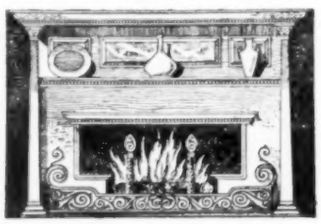

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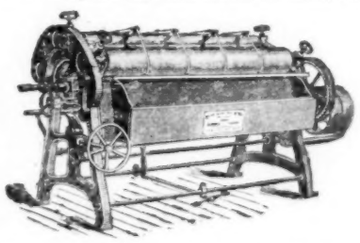

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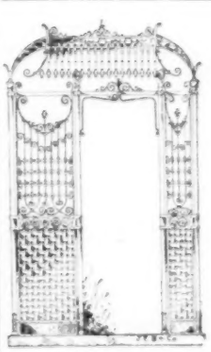

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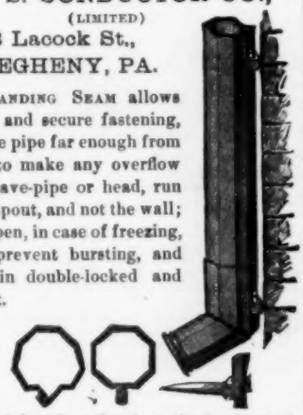

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Maple	45 00 @ 50 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
Oak, red	@ 70 00	@ 50 00	32 00 @ 46 00	45 00 @ 55 00
" white	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	35 00 @ 50 00	57 50 @ 65 00
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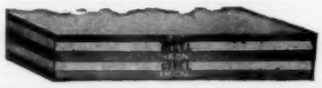

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BRICK.—₱ M.	New York. (Wholesale Prices.)	Boston. (Wholesale Prices.)	Chicago. (Prices to Builders and Contractors.)	Philadelphia. (Prices to Builders and Contractors.)
Common: *Cargo afloat.*				In Yard.
Pale	1 75 @ 2 00	Eastern	Building Brick	Sq. Hard @ 9 00
Jersey	4 00 @ 4 75	9 00 @ 10 00	@ 6 50	" @ 7 00
Long Island	@	Bay State Hard		Salmon @ 5 00
Up River	4 00 @ 4 75	7 00 @ 8 00		Sq. " @ 9 00
Haverstraw Bay 2d	4 75 @ 5 00	Domestic Com.	Indiana Pressed	Light Stretchers
" 1st	5 00 @ 5 25	9 50 @ 10 00	14 00 @ 20 00	@ 10 00
Hollow	@ 13 00	Domestic Face	St. Louis Fronts	Medium "
Fronts:		20 00 @ 22 00	@ 27 00	@ 12 00
Croton, Brown	@ 13 00	Philadelphia		Red "
" dark	@ 14 00	40 00 @ 45 00		@ 13 00
" red	@ 14 00	Phila. mould		Dark "
Chicago pressed (Anderson)		50 00 @ 80 00		@ 13 00
" Moulded			15 00 @ 27 00	Pressed
Baltimore	37 00 @ 41 00	Anderson	65 00 @ 350 00	18 00 @ 20 00
Philadelphia	23 00 @ 24 00	14 00 @ 32 00	@ 55 00	Best Paving
Trenton	22 00 @ 23 00		45 00 @ 50 00	@ 14 00
Milwaukee			45 00 @	Second "
Moulded:			25 00 @	@ 13 00
Glens Falls Red Pressed	@ 37 00		60 00 @ 100 00	Third "
" " Buff "	@ 30 00		30 @	@ 12 00
" " Moulded Red & Buff	45 00 @ 70 00		35 @	
Enamelled: *Imp.*			55 00 @ 65 00	
Enamelled (edge)	85 00 @ 100 00			Dom. @ 65
Enamelled (edge and end)	90 00 @ 115 00		@ 100 00	@ 85
CEMENT, LIME, etc.—(₱ *cask.*)			@ 120 00	
Rosendale Cement	85 @ 95	1 20 @ 1 40	*Not sold.*	1 30 @ 1 50
Louisville "		Brooks, S. & Co.	1 05 @ 1 30	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	*Not sold.*	2 60 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs)	2 50 @ 3 00	2 60 @ 3 06	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	Josson
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	2 60 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover)	2 50 @ 3 00		*Not sold.*	2 75 @ 2 85
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	2 70 @ 3 00
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30
Chicago Lime in bulk		St. John 1 00	55 @	White Mash
Wisconsin Lime			60 @	1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	1 00 @ 1 00
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ bush	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ load	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		35 @ 60	75 @ 1 50
Serpentine	@	10 50 per ton	@ 1 00	₱ Perch @ 4 00

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Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: ℔ *sq. ft.*				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in.th. 10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	55 @ 1 00
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" green	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" purple	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" red	4 25 @ 4 75	@	6 25 @ 6 85	325 @ 4 00
" black, Lehigh	@	@	7 30 @ 8 00	00 @ 4 65
" " Chapmans	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
" Unfading black, Monson, Me	@	@	*Not Sold.*	@ 25 00
Tiles, Am ....℔ M.	@	@	@	6 00 @ 6 75
N. Peach Bottom, warranted unfading.				
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 5½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ *gal.*)	55 @ 62	40 @ 41	57 @ 60	@ 60
" " boiled. (℔ *gal.*)	58 @ 65	43 @ 44	60 @ 63	@ 63
Turpentine (℔ *gal.*)	36 @ 37	@ 34	51 @ 51	@ 44
Varnish, coach (℔ *gal.*)	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac (℔ *gal.*)	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting (*dry.*)	75 @ 1 00	1 @ 1½	1 @ 1½	1 @ 1
Paris white, (Eng.) (*dry.*)	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am (*dry.*)	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask
Butts: 4″ x 4″ (℔ *doz. pairs.*)	@ 1 00	@ 1 20	@ 90	2 90 (all kinds.) @ 90
Plain	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 75
Acorn, Japanned	@ 65	@ 50	*Not Sold.*	48 @ 50
Ball Tip, Boston Finish (℔ *pair.*)	@ 1 90	plain 1 65	2 00 @ 3 25	@ 1 25
Bronze metal	@ 10	@ 10	@ 12	@ 1 00
Brass (for cupboards.)	@	@	@	@ 35
Ebony	@	@	@	37 @ 1 00
Apple wood	@	@	@	
Knobs: (℔ *set.*)	@ 8	@ 8	@ 10	@ 08
Mineral, best	@ 50	@ 75	65 @ 80	*Not Sold.*
Lava	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Hemacite	@ 30	@ 10	25 @ 30	@ 25
Porcelain	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, solid	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Glass, silvered	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Bronze metal	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Brass	@	@	13 @ 16	13½ @ 16
Solder:	@	@ 7½	@ 7	@ 6½
Sheet Lead	@	@ 6½	@ 6½	6 @ 6
Lead Pipe	@		@	
Iron:				
I-Beams, up to and including 36 ft.	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ¼, ½, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 4-10	3 20 @ 3 70	@ 2 8-10

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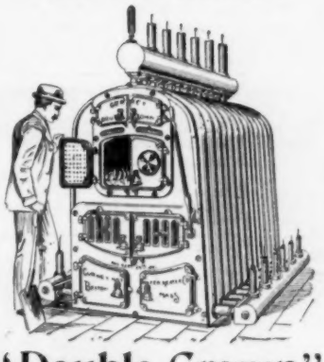

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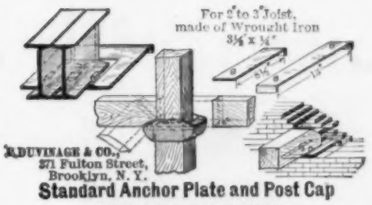

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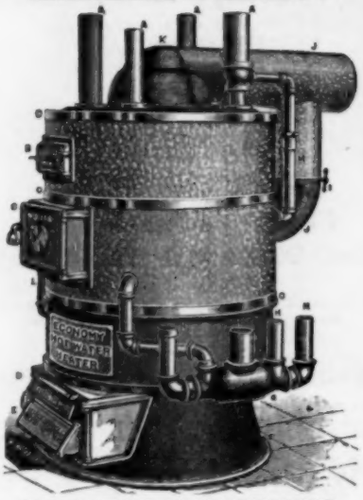

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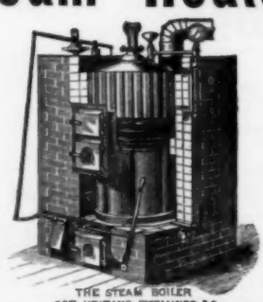

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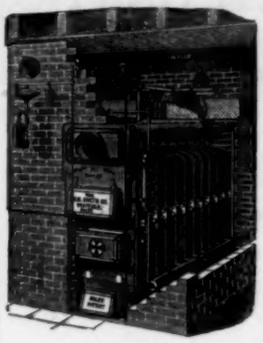

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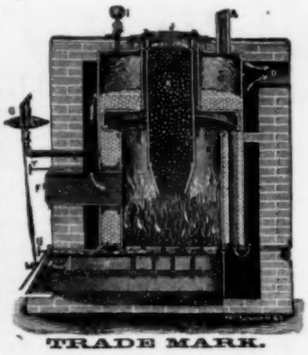

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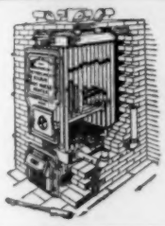

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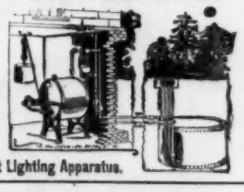

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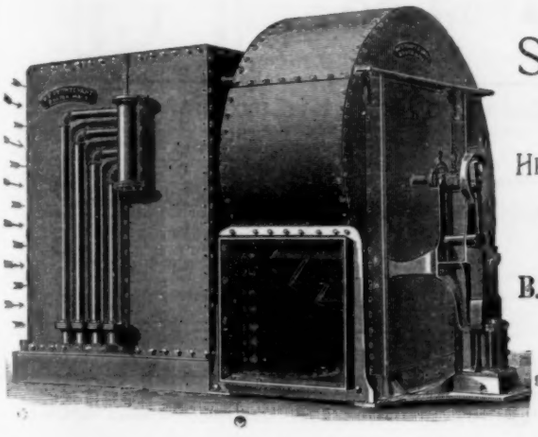

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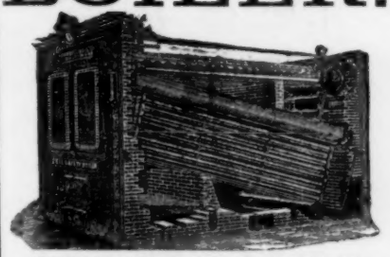

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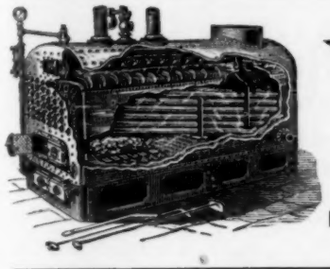

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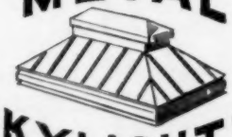

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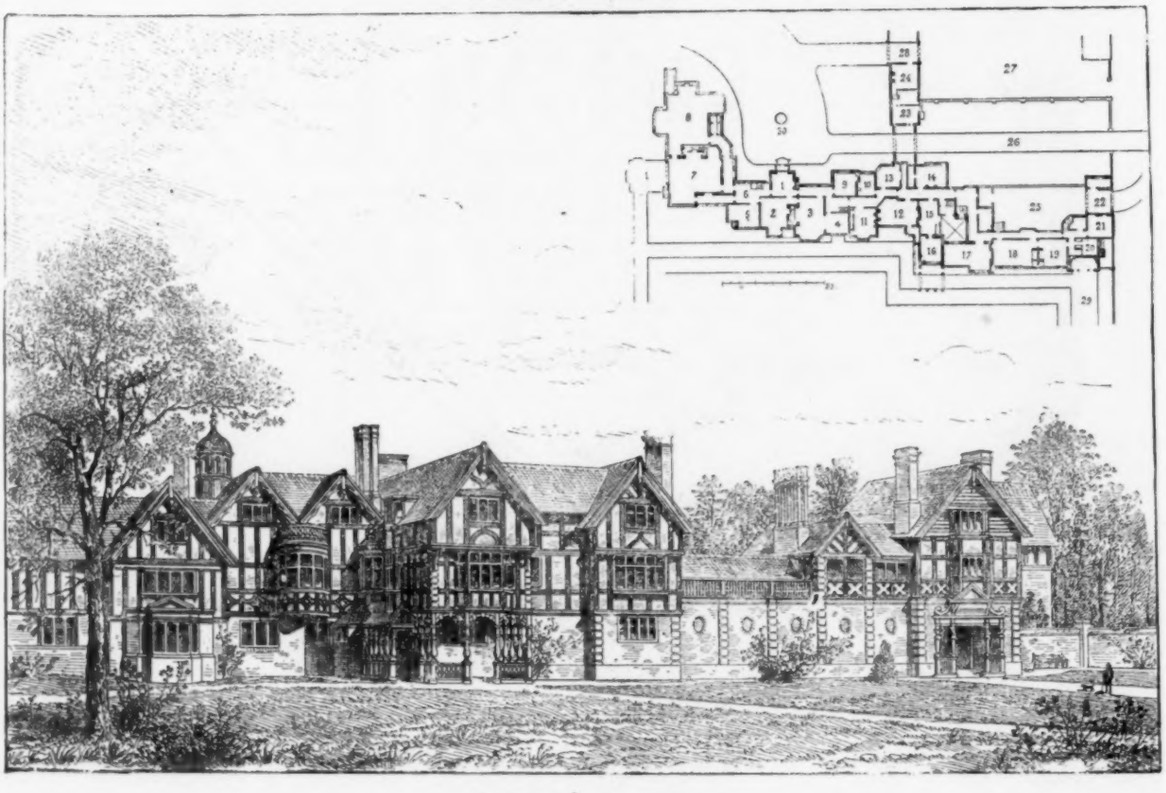

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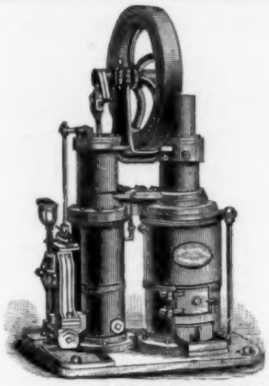

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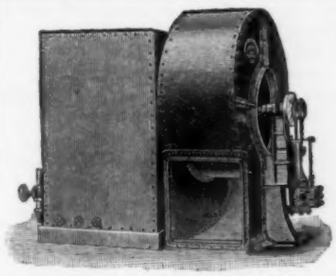

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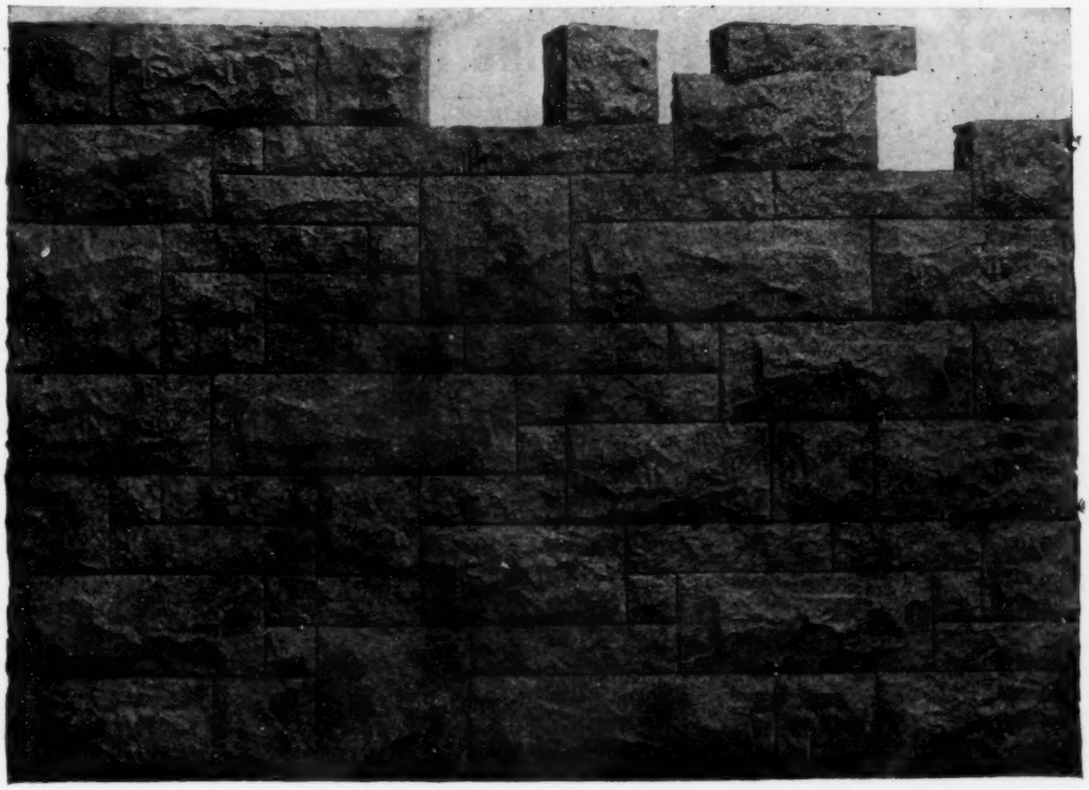

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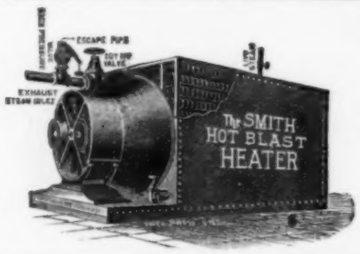

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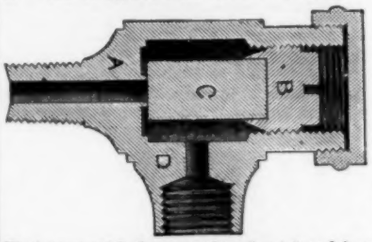

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These varnishes are not sold in large quantities, nor do they in any way replace Transparent Wood Finish for general use.

But every painter has now and then a specially nice job for which he wants a specially nice varnish.

And for this purpose he should always have a case or two of these goods in his shop.

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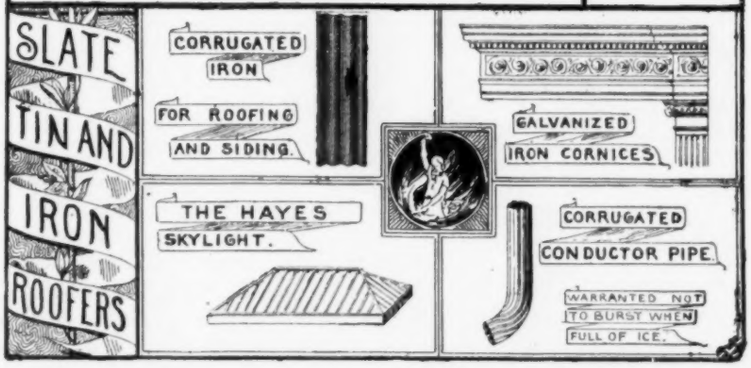

Awarded the Grand Prize at the late Paris Exposition.

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The American Architect and Building News

IS PUBLISHED EVERY SATURDAY BY

TICKNOR & COMPANY,

211 TREMONT ST., BOSTON, MASS.

For the American Architect and Building News Co.

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New Advertisements.

MERCHANT & CO. (Philadelphia, Pa.), Roofing Tin. Page 2, Cover.

PERSPECTIVE DRAWING.

The *American Architect* Drawing-Office will undertake the preparation of perspective drawings in line or color from scale drawings, or will render drawings already in outline. Address the editors.

WANTED.

DRAUGHTSMAN. — Wanted, immediately, a draughtsman experienced in making general drawings and details; also, a man for tracing. Apply between one and two o'clock. Chapman & Fraser, 89 State Street, Boston. 869

WANTED.

DESIGNER. — An able and experienced designer wanted on high-grade furniture and interior wood and decorative work; must understand sketching and detailing. Address, stating past experience and references, "S. K. A.," Station D, New York. 868

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SUPERINTENDENT. — We desire to secure the services of a first-class man to take charge of a drapery and interior decorative department; he must have a thorough knowledge of wall, ceiling and window decorating. Apply personally or by mail to the Hayden Company, 1 West Thirty-fourth Street, New York, after August 20th. 869

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EXTRA WORK. — A draughtsman of four years' experience wishes to obtain work for evenings. Address "H. R.," care of *American Architect*. 870

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DRAUGHTSMAN. — A competent man thoroughly familiar with the detailing of furniture and interior woodwork. Answer "Brass Bedsteads," giving reference, care of *American Architect*. 870

TO ARCHITECTS.

FRANCIS H. CRUESS, architectural artist; address, 206 North Second Street, Harrisburg, Pa.; perspectives rendered either in color, monochrome or pen-and-ink; specimens. t.f.

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ARCHITECTURAL PERSPECTIVE drawings and efficient temporary assistance by a staff of first-class designers, draughtsmen and colorists. Address Secretary, Guild of Artists, Rooms 39 and 40, 430 Walnut Street, Philadelphia, Pa. 875

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BUILDING PATENTS.

[*Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.*]

479,002. PAVEMENT. — Ernest Hill, Sheffield, Eng.

479,010. WELL-CURBING. — Aloys Möhle, Saarbrücken, Germany.

479,021. ENAMELLED BRICK AND PROCESS OF MAKING THE SAME. — Isaac T. Rue, Matawan, N. J.

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BACK NUMBERS WANTED.

The publishers of the *American Architect* would like to purchase a few copies of

Nos. 801, 807 and 827

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of the IMPERIAL edition. Double price will be paid for copies in good condition.

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BUILDING PATENTS.

479,054. BUILDING-BLOCK. — George E. Briggs, Pittsburgh, Pa.

479,060. COMPOSITION OF MATTER FOR PLASTERING. — Edward W. Dickie, Clyde, N. Y.

479,087. HOIST. — James Garner, Thomas Cockerill and Christopher Porrett, Manchester, Eng.

479,100. SMOKE-CONSUMING FURNACE. — Robert L. Walker, Boston, Mass.

479,103. BACK OR LINING FOR FIREPLACES. — William E. Fitch, Louisville, Ky.

479,104. LOCK. — George Fleischel and Joseph Bertrand, San Francisco, Cal.

479,112. DIVIDERS. — William A. Bernard, New Haven, Conn.

479,126. FLOORING. — James W. See, Hamilton, Ohio.

479,150. SASH-BALANCE. — Frederic N. Kimball, Rochester, N. Y.

479,152. SASH-FASTENER. — Stephen McClellan, San Marcos, Texas.

479,155. SHUTTER-WORKER. — Edwin H. Price, Lansdale, Pa.

479,182. SIPHON WATER-CLOSET. — George F. Brown, Philadelphia, Pa.

479,198. PLOTTER. — Lee P. Watson, Fairmount, W. Va.

479,224. SANITARY VENTILATOR. — Wilson L. Potter, Hartford, Conn.

479,275. GLAZING-BAR FOR SKYLIGHTS. — William H. Heywood, Huddersfield, Eng.

479,314. ELEVATOR. — Collins M. Stearns, Milwaukee, Wis.

479,324. SASH-HOLDER. — Emil Broggelwirth, Brooklyn, N. Y.

479,329. COMPASSES. — Adolph Kolesch, Brooklyn, N. Y.

479,377. MORTISING-AUGER. — Andrew L. Newton, Norwich, Conn.

479,390. ELEVATOR. — Marvin Y. Calcutt, Seattle, Wash.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING AUGUST 12, 1892.

From Amsterdam. — Steamer "*P. Caland*," 1,000 casks cement, order.

From Ancona. — Steamer "*Victoria*," a quantity of asphalt in loaves, order.

From Antwerp. — Steamer "*Chicago*," 1,250 barrels cement, order. Steamer "*Rhynland*," 1,000 barrels cement, Morris Ebert; 1,000 do., order.

From Bremen. — Steamer "*Gera*," 2,240 casks cement, order. Steamer "*Kaiser Wilhelm II*," 840 casks cement, order.

From Glasgow. — Steamer "*Norwegian*," 20 cases granite, Brown & Magoun; 10 do., Davidson & Son; 246 do., Austin, Baldwin & Co.; 32 blocks stone, G. P. Sherwood.

From Genoa. — Bark "*Guiseppe*," 69 blocks marble, G. Amsinck & Co.; 1,019 slabs do., Taber & Co.; 21 blocks do., order.

From Hamburg. — Steamer "*Suevia*," 560 casks cement, E. Thiele; 1,000 barrels do., order. Steamer "*Marsala*," 560 casks cement, Gabriel & Schall; 560 barrels Portland cement, order. Steamer "*Llanthony Abbey*," 1,680 casks cement, E. Thiele; 558 do., Gabriel & Schall; 3,000 barrels do., Baetjer & Meyerstein; 1,008 casks do., order.

From Havana. — Steamer "*City of Washington*," 120 bags asphalt, James E. Ward & Co.; 353 logs cedar, 26 do. mahogany, order.

From Hillsboro, N. B. — Schooner "*Fred B. Balam*," 415 tons plaster, Jed Frye & Co.

From Leghorn. — Bark "*Leon Bancaldo*," 39 blocks marble, 314 slabs do., Pells & Co.; 526 do., Taber & Co.; 18 blocks do., G. Amsinck & Co.; 471 slabs do., order.

From Liverpool. — Steamer "*Cufic*," 30,000 firebricks, E. A. Chatfield; 25,000 red roofing-tiles, Drexel, Morgan & Co.

From London. — Ship "*Helene*," 1,500 casks cement, E. Thiele; 3,510 do., Charles Stevens; 3,500 do., order. Steamer "*Richmond Hill*," 1,000 casks cement, order. Steamer "*France*," 500 casks cement, Bank of British North America.

From Mabon, N. S. — Schooner "*Evolution*," 350 tons plaster, C. W. Bertaux & Co.

From Nuevitas. — Schooner "*Daisy Parkhurst*," 874 logs cedar, 80 do. mahogany, Reynes Bros. & Co.

From Panama. — Steamer "*Colombia*," 34 logs wood, D. M. Piza.

From Rotterdam. — Steamer "*Spaarndam*," 1,000 casks cement, order.

From Santa Cruz. — Bark "*Ole Knudsen*," 59 logs cedar, 1,896 do. mahogany, order.

From Stettin. — Steamer "*Gothia*," 1,000 barrels cement, Emil Kauter; 1,000 do. Portland cement, E. Thiele; 2,000 do., Edward Filbell; 500 do., 935 fireproof bricks, H. Marquardt; 3,000 barrels cement, order.

From Trinidad. — Schooner "*Lillian Woodruff*," 440 tons asphalt, order. Schooner "*Adelene*," 260 tons asphalt, Middleton & Co.

From Vera Cruz. — Steamer "*Orizaba*," 305 blocks marble, W. W. Thomas & Co.; 100 do., E. Zarang & Co.

From Wentworth, N. S. — Bark "*Avola*," 912 tons plaster, J. F. Whitney & Co.

(*Continued on page* xv.)

See last or next issue for the following advertisements.

Bailey Reflector Co.
Belmont Iron Works.
Berry Bros.
J. E. Bolles & Co.
Bridgeport Wood Finishing Co.
Central Expanded Metal Co.
Frost & Adams.
Gorton & Lidgerwood.
Okonite Co.
Wm. Powell & Co.
J. B. Prescott & Son.
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J. J. Schillinger.
Stebbins Mfg. Co.
N. & G. Taylor Co.
Thorn Shingle and Ornament Co.
Wehn Pavement Co,
Wood Mosaic Co.

See the first issue of the month for the following advertisements.

Adamant Mfg. Co.
Brooks, Shoobridge & Co.
Bureau Bros.
Dubois Mfg. Co.
Esterbrook Pen Co.
I. P. Frink.
H. M. Hanson.
Lane Bros.
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IMPORTS OF BUILDING MATERIALS, Etc.

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Designs furnished and all particulars and instructions by
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IMPORTS OF BUILDING MATERIALS, Etc.

From Windsor, N. S. — Schooner "*Calabria*," 837 tons plaster, J. F. Whitney & Co.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

ALTERATIONS.

Camden, N. J. — *Cooper St.*, n w cor. Tenth St., alterations to frame church; builder, Jacob Heater, 248 Chestnut St.

Chestnut St., No. 294, two-st'y alteration to frame building; builder, J. Becket, 277 Chestnut St.

Mechanic St., two-st'y frame alteration; owner, Thomas Pregartner, 1238 Mechanic St.

Federal St., s w cor. Fourth St., alteration to store; builder, John Corbitt.

Berkeley St., s e cor. Broadway, one-st'y addition to building; builder, Jacob Curry.

APARTMENT-HOUSES.

New York, N. Y. — *One Hundred and Fifty-fourth St.*, s e cor. Morris Ave., four-st'y brick flat, tin roof; cost, $18,000; owner, Bernhard Stock, 695 Morris Ave.; architect, O. Reissmann, 118 East Fourth St.

Ridge St., No. 32, five-st'y brick flat, tin roof; cost, $16,000; owner, Jacob Weinstein, 171 Madison St.; architects, Horenburger & Straub, 122 Bowery.

West Thirty-fifth St., No. 35, five-st'y brick flat, tin roof; cost, $30,000; owner, William H. Hussey, East Orange, N. J.; architect, George Keister, 146 West Thirty-fourth St.

One Hundred and Forty-second St., n s, 100′ w Boulevard, 2 five-st'y brick flats, tin roofs; cost, $40,000; owner, Jacob Vix, 458 West One Hundred and Fiftieth St.; architect, George H. Griebel, 247 West One Hundred and Twenty-fifth St.

One Hundred and Eighth St., Nos. 11-17, 4 five-st'y brick flats, tin roofs; cost, $60,000; owner, Herman Horenburger, 52 First Ave.; architects, Horenburger & Straul, 122 Bowery.

One Hundred and Third St., n s, 258′ 3″ w Amsterdam Ave., 4 five-st'y brick flats, tin roofs; cost, $100,000; owners, Sheridan & Byrne, 428 East Eighty-fifth St. and 110 East Eighty-ninth St.; architect, Louis F. Heinecke, 62 Bowery.

Third Ave., No. 1534, five-st'y brick flat, tin roof; cost, $22,000; owner, Henry Buab, 1536 Third Ave.; architect, Charles Stegmayer, 306 East Eighty-second St.

Stanton St., n w cor. Goerck Ave., five-st'y brick flat, tin roof; cost, $25,000; owner, John McKelvey, 454 West Forty-ninth St.; architect, James W. Cole, 403 West Fifty-first St.

FACTORIES.

New York, N. Y. — *Eleventh Ave., No.* 501, four-st'y brick factory, tin roof; cost, $6,500; owner, Albel Sharlow, 460 West Fifty-first St.

BUILDING INTELLIGENCE.

Delancy St., n e cor. Willett St., seven-st'y brick factory; cost, $22,000; owners D. & H. Baum, 1186 Lexington Ave.; architects, Graul & Frohne, 215 Bowery.

HOUSES.

Brooklyn, N. Y. — *Warwick St.*, w s, 25′ n Sutter Ave., 4 two-st'y frame dwells., tin roofs; cost, $1,500 each; owner and builder, Frederick Elermann, 268 Schenck Ave.

Atkins Ave., w s, 100′ s Sutter Ave., 2 two-st'y frame dwells., shingle and tin roofs; total cost, $4,000; owner, Henry A. Wilson, 574 Madison St.; architects, Parfitt Bros., 26 Court St.; builder, Adolph Weymer, Essex St., near Jamaica Ave.

Crystal St., w s, 100′ s Eastern Parkway, 5 three-st'y frame dwells., tin roofs; cost, $2,500 each; owner and builder, George W. Kelley, Atlantic and Van Siclen Aves.; architects, Danmar & Fisher, Atlantic and Van Siclen Ave.

Sackman St., w s, 200′ s Dumont Ave., 6 two-st'y frame dwells., tin roofs; cost, $2,000 each; owner and builder, Michael Newman, Eastern Parkway and Osborn St.; architect, Charles Infanger, 126 Van Siclen Ave.

Diamond St., w s, 75′ s Nassau Ave., three-st'y frame dwell., tin roof; cost, $4,000; owner and builder, Aug. Todebusch, 324 Bleecker St.; architect, B. Finkensieper, 93 Broadway.

De Kalb Ave., n s, 100′ w Knickerbocker Ave., 3 three-st'y frame dwells., tin roofs; total cost, $12,000; owner and builder, Conrad Reuter, 237 Jefferson St.; architect, E. Schrempf, 534 Bushwick Ave.

Garfield Pl., n e cor. Polhemus Pl., three-st'y brick dwell., tin roof; cost, $13,000; owners and builders, Martin & Lee, 440 Clermont Ave.; architect, J. D. McAuliffe, 319 Flatbush Ave.

Garfield Pl., n s, 20′ e Polhemus Pl., 4 three-st'y brick dwells., tin roofs; cost, $8,500 each; owners and builders, Martin & Lee, 440 Clermont Ave.; architect, J. D. McAuliffe, 319 Flatbush Ave.

Bradford St., w s, 200′ s Sutter Ave., 5 three-st'y brick dwells., tin roofs; cost, $6,500 each; owners, The German-American Improvement Co., Atlantic and Van Siclen Aves.; architects, Danmar & Fischer, Atlantic and Van Siclen Aves.

Covert St., n s, 20′ w Central Ave., 10 two-st'y frame dwells., tin roofs; cost, $3,000 each; owners, architects and builders, L. J. Lippmann & Co., 143 Weirfield St.

Eldert St., s s, 20′ w Central Ave., 10 two-st'y frame dwells., tin roofs, cost, $3,000 each; owners, architects and builders, J. Lippmann & Co., 143 Weirfield St.

Fourth St., s s, 197′ 10½″ w Eighth Ave., 3 three-st'y brick dwells., I. C. charcoal tin and slate roof; cost, $30,000; owner, Thomas Leeming, 216 Park Place; architects, Heins & La Farge, Temple Court, New York City; builder, Harvey Murdock.

Clifford Place, w s, 100′ s Colyer St., three-st'y frame dwell., gravel roof; cost, $4,500; owner, David McCaffrey, Clifford Pl.; architect, F. Weber, 209 Manhattan Ave.

Chestnut St., w s, 325′ n Fulton Ave., two-st'y frame dwell., tin roof; cost, $3,000; owner, John P. Hannon, Marcy Ave., near Greene Ave.; architects, Danmar & Fisher, Atlantic and Van Siclen Aves.

Palmetto St., s s, 125′ e Central Ave., 2 three-st'y

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Manufacture all their products, both in
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frame dwells., tin roofs; cost, $4,000 each; owners and builders, Charles Walcher and George Appel, 1218 Gates Ave.; architect, H. Vollweiler, 483 Hart St.

Sutter Ave., n s, 25′ w Christopher St., 2 three-st'y frame dwells., tin roofs; cost, $4,500 each; owners and builders, Axelrod & Levigen, Thatford Ave.

Harman St., s s, 100′ w Hamburg Ave., 4 three-st'y frame dwells., tin roofs; cost, $4,000 each; owners and builders, A. Dillman & Co., 170 Harman St.; architect, H. Vollweiler, 483 Hart St.

Hancock St., s s, 125′ e Broadway, two-st'y frame dwell., tin roof; cost, $3,800; owner, Jane Donaghy, 24 Woodbine St.

Stanhope St., n s, 150′ e Evergreen Ave., three-st'y frame dwell., tin roof; cost, $6,000; owner, George M. Rothstein, 1001 Willoughby Ave.; architect, Th. Engelhardt, 905 Broadway.

Forty-second St., n s, 269′ w Fourth Ave., three-st'y frame dwell., tin roof; cost, $3,000; owner, Ellen Busby, Fourth Ave. and Thirty-ninth St.; architects, H. L. Spicer & Son, Third Ave. and Fifty-third St.

South First St., s s, 55′ w Union Ave., four-st'y brick dwell., tin roof; cost, $10,000; owner, Martin Hollister, Union Ave. and South First St.; architects, D. Acker & Son, 752 Broadway.

Kosciusko St., s s, 150′ w Throop Ave., 2 two-st'y brick dwells., tin roofs; cost, $3,000 each; owner, Jos. C. Miller, 280 Kosciusko St.; architects, I. D. Reynolds & Son, 363 Fulton St.

Bainbridge St., n s, 95′ w Stuyvesant Ave. to Lewis Ave., 33 three-st'y brick dwells., tin roofs; cost, $297,000; owner, Walter F. Clayton, 305 Stuyvesant Ave.; architect, M. Dahlander, 1082 Bedford Ave.

Cincinnati, O. — J. Wuest, two-and-one-half-st'y brick and stone dwell., McMillan St.; cost, $9,000; architect, G. Drach.

Jos. Casey, two-and-one-half-st'y brick and stone dwell. and stores, Lakeman St.; cost, $4,000; architect, A. J. Bast.

Isaac Herman, 3 two-st'y frame dwells., Hunt St.; cost, $4,500; architect, J. Rueckert.

Lucy B. Powell., double two-and-one-half-st'y frame dwell., Eastern Ave.; cost, $3,000; architect, W. Vance.

Cornie Moore Lawson, two-and-one-half-st'y frame dwell., Madisonville Pike; cost, $8,000; architect, H. O. Elzner.

Mrs. Sarah B. Tieman, two-and-one-half-st'y frame dwell., Westwood Ave.; cost, $2,700; architect, C. M. Boroughs.

H. Kramer, three-and-one-half-st'y brick and stone dwell., Harrison Ave.; cost, $5,000; architects, G. & A. Brink.

A. Foster, two-and-one-half st'y brick and stone dwell., Mulberry St.; cost, $4,000; architects, G. & A. Brink.

Mrs. Isabella Bowers, two-st'y brick and stone dwell., Williamson St.; cost, $4,000; architect, M. Fisher.

C. Wuest & Sons, three-st'y brick and stone dwell., McMicken Ave.; cost, $2,500; architect, D. Pfeiffer.

H. Weingartner, three-and-one-half-st'y brick and stone dwell. and store, John St.; architects, G. & A. Brink.

Detroit, Mich. — H. S. Peoples, seven brick dwells., etc., 1101-1113 Michigan Ave.; cost, $32,000.

Rogers & McFarland, double brick dwell., 408-410 Jefferson Ave.; cost, $30,000; brick dwell., 484 John R St.; cost, $20,000.

Thomas Payne, double brick dwell., 670 Second Ave.; cost, $6,000.

George H. Whitaker, two frame dwells., 1096-1098 Fourth Ave.; cost, $5,000.

Malcolmson & Higginbotham, double brick dwell., 83-85 Howard St.; cost, $10,000.

Spier & Rohns, brick dwell., 247 Montcalm St.; cost, $5,000.

J. Corbeille, two brick dwells., 45 and 51 Harper Ave.; cost, $6,000.

J. S. Gearing & Sons, double brick dwell., 602-604 Second Ave.; cost, $14,000.

A. Albracht, double brick dwell., 515-517 John R St.; cost, $9,000.

A. Chapoton, stone dwell., 905 Jefferson Ave.; cost, $14,000.

McLaughlin Bros., two frame dwells., Blaine Ave.; cost, $6,500.

Chapoton & Co., frame dwell., 412-414 Meldrum Ave.; cost, $2,000.

H. W. Holcomb, brick dwell. and barn, 860 Second Ave.; cost, $10,000.

William Trix, nine frame dwells., 1139, etc., to 1171 Hudson Ave.; cost, $20,000.

S. P. McDougall, five frame dwells., 778, etc., Twenty-sixth St.; cost, $8,000.

A. C. Varney & Co., six brick and stone dwells., 218-228 Congress St., e; cost, $20,000.

Roger Echlin, double brick dwell., 150-152 Montcalm St.; cost, $5,500.

Dorchester, Mass. — Frame dwell.; owner, Edward Wilder; contract to be let; architects, Hartwell & Richardson, Boston.

Walton St., frame dwell., 30′ x 35′; owner, D. Frank Hartford; builder, George W. Bailey; architect, Edwin J. Lewis, Jr., Boston.

Washington St., frame dwell., 23′ x 53′; owner, Mrs. Josephine T. Rogers; builder, J. M. Merrill; architect, Edwin J. Lewis, Jr., Boston.

Upland Ave., frame dwell., 33′ x 40′; owner, Mrs. Elizabeth Gough; contract to be let; architect, Edwin J. Lewis, Jr., Boston.

Philadelphia, Pa. — *Weiss St.*, e s, s Chelten Ave., two-st'y brick dwell.; builder, Albert Hamilton, Chelten Ave. and Weiss St.

Rohrer St., e s, n Indiana Ave., two-st'y brick dwell.; builders, Dickinson Bros., 3045 Frankford Ave.

Cross St., s s, w Twenty-third St., 24 two-st'y brick dwells.; owner, Jno. M. B. Morrow, 1525 South Broad St.

Eighteenth St., w s, n Snyder Ave., 10 two-st'y brick dwells.; builder, D. S. McClure, 827 Race St.

Redwood St., s s, w Twenty-fifth St., 9 two-st'y brick dwells.; owner, O. W. Buckley, 1736 North Twenty-second St.

Oakford St., n s, w Twenty-fifth St., 9 two-st'y brick dwells.; owner, O. W. Buckley, 1736 North Twenty-second St.

Twenty-sixth St., e s, bet. Redwood and Oakford Sts., 8 two-st'y brick dwells.; owner, O. W. Buckley, 1736 North Twenty-second St.

Greenway Ave., n w s, s Fiftieth St., nine brick dwells.; owner, W. S. P. Sheilds, 735 Walnut St.

E Ave., w s, n Eighteenth St., two-st'y brick dwell.; builder, Chas. S. Kates, 798 Brewster Ave.

Dennie St., n s, w Germantown Ave., 10 three-st'y brick dwells.; builder, James Mole, 1718 Cayuga St.

Adams St., n w s, n e Ridge Ave., two-st'y brick dwell.; builder, Harrold Wildman, 348 Fleason St.

Jefferson St., n w s, e Washington St., 2 two-st'y brick dwells.; builder, Jno. W. McElweer, 148 Jefferson St.

Franklin St., e s, s Cambria St., 11 two-st'y brick dwells.; owner, H. G. Schultz, 2633 Germantown Ave.

Eighth St., e s, n Cambria St., 12 two-st'y brick dwells.; owners, Wolful & Schumuck, 612 Cambria St.

Homestead St., n e s, s w State Road, 2 two-st'y brick dwells.; owner, H. P. Castor, 5811 Torresdale Ave.

PROPOSALS.

Proposals for Bronze Brackets and Railings. Office of Building for Library of Congress, 145 East Capitol Street, Washington, D. C., August 18, 1892. Sealed proposals for furnishing and delivering the bronze gallery brackets and railings for the exterior walls of the book-stacks of the Building for the Library of Congress, in this city, will be received at this office until 2 o'clock P. M. on Saturday, the 3d day of September, 1892, and opened immediately thereafter in presence of bidders. Specifications, general instructions and conditions and blank forms of proposal may be obtained on application at this office. BERNARD R. GREEN, Superintendent and Engineer. 870

Treasury Department, Office Supervising Architect, Washington, D. C., August 12, 1892. Sealed proposals will be received at this office until two o'clock P. M. on the 6th day of September, 1892, and opened immediately thereafter, for furnishing all the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Court-house, Post-office and Custom-house building at Vicksburg, Miss., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Vicksburg, Miss. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Court-house, Post-office and Custom-house building at Vicksburg, Miss.," and addressed to W. J. EDBROOKE, Supervising Architect. 870

Treasury Department, Office Supervising Architect, Washington, D. C., August 13, 1892. Sealed proposals will be received at this office until two o'clock, P. M. on the 9th day of September, 1892, and opened immediately thereafter, for furnishing all the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Court-house and Post-office building at Statesville, N. C., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Custodian at Statesville, N. C. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Court-house and Post-office building at Statesville, N. C.," and addressed to W. J. EDBROOKE, Supervising Architect. 870

Treasury Department, Office Supervising Architect, Washington, D. C., August 8, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 30th day of August, 1892, and opened immediately thereafter for furnishing all the new steam and return risers, new radiators, removing old coil radiators, etc., for the United States Court-house and Post-office building at New York City, N. Y., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at New York City, N. Y. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid if it be deemed in the interest of the Government to do so. All bids received after the time stated will

(*Continued on page* xx.)

THE following Report by Prof. J. S. Newberry, Professor of Geology and Paleontology in the Columbia College School of Mines, in which he has established a museum of 100,000 specimens of rare value, should be given due weight as being the opinion of the highest living authority upon the subject of which he writes.

Dr. Newberry was born in Windsor, Ct., December 23, 1822. He graduated from Western Reserve College in 1846, and from the Cleveland Medical College in 1848, spent two years in study abroad, and then began the practice of medicine in Cleveland, where he remained until 1855.

During this year he was appointed acting Assistant-Surgeon and Geologist to the party, which under Lieut. Robert S. Williamson, explored the country between San Francisco and the Columbia River. He assisted Lieut. Joseph C. Ives in the exploration of the Colorado River, and was with Capt. John N. Macomb, on the San Juan and Upper Colorado Rivers. In 1859 Prof. Newberry travelled over the plains of Southern Colorado, Utah, Northern Arizona and New Mexico.

In 1866 Prof. Newberry was elected Professor of Geology and Paleontology in the Columbia College School of Mines. In 1869 he was appointed State Geologist of Ohio.

Seven years ago he was appointed paleontologist to the United States Geological Survey, having charge of the investigation of fossils, botany and fishes. Western Reserve College conferred the degree of LL. D. upon him in 1867. In 1888 the Geological Society of London presented him with the Murchison gold medal. He is a member of the Scientific Societies of America and Europe, was named by Congress one of the corporate members of the National Academy of Science, has been President of the American Association for the Advancement of Science, and of the New York Academy of Science since 1867, and is President of the Torrey Botanical Club.

Dr. Newberry is the author of more than two hundred titles, and stands in the front rank of the mining experts of the world.

The Potsdam Sandstone from the quarries of the Potsdam Red Sandstone Company, has been used so extensively by builders of the United States and Canada, and its reputation is so well established, that it might seem that no further word was needed on this subject. It has been under my observation for many years in the public buildings at Ottawa, Canada, and elsewhere, and more particularly in the recently constructed buildings of Columbia College, New York. I had subjected the stone used at Columbia to microscopic observation, chemical analysis and physical tests, at the time when the choice of stone was under consideration by our architect. From these experiments I had learned as I supposed all that it was necessary to know about the stone, viz: that it was a dark red banded sandstone, having a resistance to a crushing force of 17,000 to 18,000 pounds per square inch; that it consisted of silica with a slight ingredient of iron, from which it took its color, and preferable so far as strength, homogeneousness and durability were concerned to any other sandstone known to me. I therefore unhesitatingly recommended its use, and I have never since had occasion to change my mind in regard to its superiority. Still, when I went over the ground and examined the stone in place, and noticed the marked difference in the stone of the different quarries of this company, and especially when I had subjected a new series of specimens to tests for physical strength, I found that I had much to learn in regard to its variety and excellence.

In the first place I discovered that instead of one, there are at least three marked varieties of this stone, possessing different degrees of strength and shades of color, affording to the architect a means of securing a range of effects, when used either singly or in combination. Also, that the stone which we had used at Columbia, though possessing greater strength than any sandstone submitted to trial, was far surpassed in this respect by some of the other varieties attainable, and that the strongest not only exceeded in strength all other varieties of stone tested at the School of Mines, but even resisted the full crushing force of the powerful Emery testing-machine, which we have recently had constructed, and which was supposed to be capable of reducing to powder any building stone submitted to its action. The resistance to crushing force in the specimens tested, varied from 18,401 pounds to the square inch to 42,804, or rather to and beyond the extreme crushing force of our machine; for it was found impossible to overcome with the machine the resistance of two inch cubes of the strongest stone, although the pressure was carried up to 151,000 pounds. Hence we can say that the resistance to crushing force, of the strongest variety, exceeds 42,000 pounds to the square inch, a result greater than we have obtained from tests on granite of any kind, from trap or any other variety of building stone.

The element of beautv is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C.

As I have said, I was surprised to find in the different quarries of this Company so many varieties of color in the stone. In the west quarries, the typical "Red Potsdam," either plain or banded, prevails. On their southern tracts are outcrops of homogeneous and monochrome, chocolate-colored stone in heavy ledges, which will yield blocks of any desired size, while in their quarries on the east side are exposed about fifty feet of rather massive layers, separated by a band of fifteen feet of foundation orbri dge stone. The upper and lower bands composing the fifty feet referred to, are mainly of light colored homogeneous stone, to which I was a stranger before visiting the quarries. This is of a reddish cream-color, very uniform in tint and pleasing to the eye. It comes out in layers from two to six feet in thickness and splits with ease and certainty in any direction. With the chocolate-colored stone, to which reference has been made it may be combined with fine effect, one variety being used for trimming to the other, as corner stones, door and window caps, porches, etc., or associated as block stones in plain walls.

This cream-colored variety works with comparative ease, and may be wrought into moulding and ornaments, much more cheaply than the harder varieties, which will be best used when hammer dressed, a style of treatment to which every phase of the stone will lend itself, as it breaks true and even under the hammer.

The different tracts of land controlled by this Company comprise about two hundred acres, distributed for about a mile up and down Racquette river, and selected with judgment so as to embrace the best outcrops of stones found in the district. On all these tracts the Potsdam sandstone is practically the surface rock, being covered only with a layer of greater or less thickness of boulder clay. In quantity, therefore, the quarries are practically inexhaustible, and it is not too much to say that they may be worked for centuries without embarrassment.

J. S. NEWBERRY.

The stone from the quarries of this Company is unexcelled for beauty of color and effect. As the only way that architects can get an idea of the color of the stone is by inspection of a sample, we shall be glad to forward samples and full information to architects who may apply for the same.

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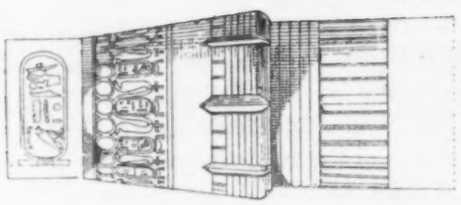
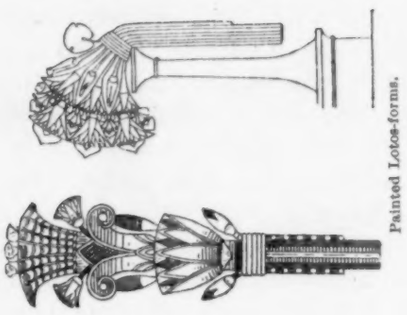


From the Nephteum, Goorneh.



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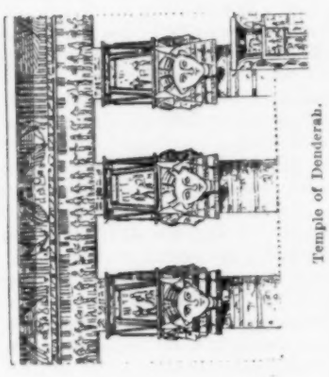
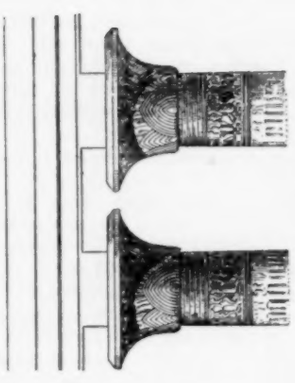


Temple of Denderah.



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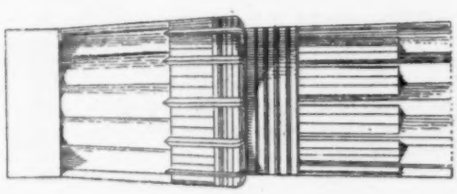
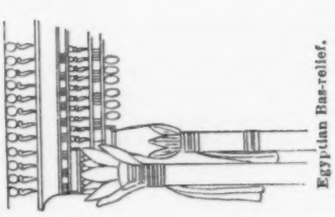


From Thebes, Time of Amenophis III.



Egyptian Bas-relief.

From the Rhamesseum, Thebes.

CAPITALS—EGYPTIAN.

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PROPOSALS.

be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the New Steam and Return Risers, New Radiators, etc., for the United States Court-house and Post-office building at New York City, N. Y.," and addressed to W. J. EDBROOKE, Supervising Architect. 870

Treasury Department, Office Supervising Architect, Washington, D. C., August 5, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 1st. day of September, 1892, and opened immediately thereafter, for all the labor and materials required for the trench excavation, foundations, cut stone work and brick work, iron and wood floor, ceiling and roof construction, roof covering, etc., for the United States Post-office building at Fremont, Neb., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Fremont, Neb. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Trench Excavation, Foundations, Cut-stone and Brick Work, Iron and Wood Floor, Ceiling and Roof Construction, Roof Covering, etc., for the United States Post-office building at Fremont, Neb.," and addressed to W. J. EDBROOKE, Supervising Architect. 869

Proposals for Iron-work. Office of Building for Library of Congress, 145 East Capitol Street, Washington, D. C., August 6, 1892. Sealed proposals for furnishing, delivering and erecting in place, complete, the iron-work of the dome and lantern of the Building for the Library of Congress, in this city, will be received at this office until 2 o'clock P. M. on Thursday, the 25th day of August, 1892, and opened immediately thereafter in presence of bidders. Specifications, general instructions and conditions and blank forms of proposal may be obtained on application to this office. BERNARD R. GREEN, Superintendent and Engineer. 869

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[*See Alphabetical Index on page VII for Pagination.*]

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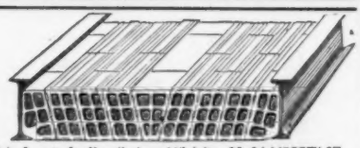
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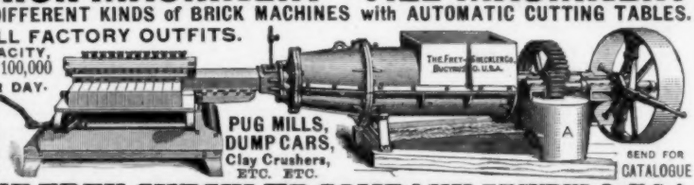
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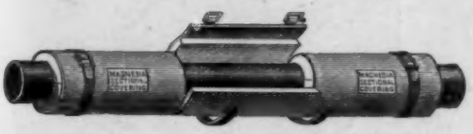

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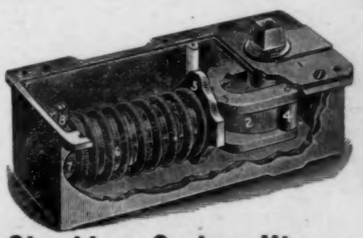

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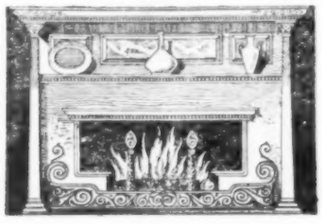

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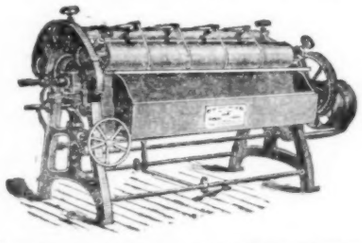

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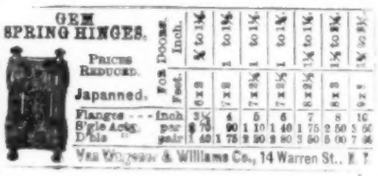

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POLICY HOLDERS' SURPLUS	2,645,761.24
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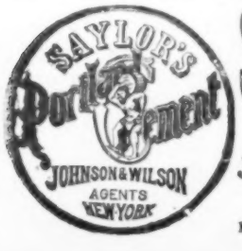

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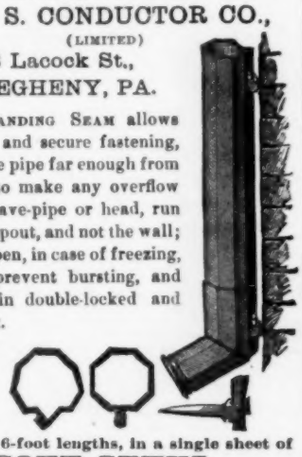

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AMERICAN ROOFING PLATES.

A VALUED correspondent, who is a leading manufacturer and perhaps the best living authority on tin roofing plates, writes us an interesting letter upon that subject, from which we extract some of the more important facts and statements :

"The position of American roofing plates to-day is such an important one that as the editor of one of the prominent journals we desire to give you some facts connected with same, which may not only interest but astonish you. It is now about eighteen months since the McKinley bill has been in operation, and while there have been a great many misrepresentations made on both sides for political purposes, yet in the past six months such great changes have taken place in the manufacture of the higher or better qualities of roofing plates that even those who were sceptical as to the result of plates being made in this country have not only conceded this fact, but the number of so called manufacturers have become so great as to have stopped the importation of many of the high grades of roofing plates. When we assert that the new tariff on guaranteed plates increased their cost to import (according to grade) from $2.50 to $3.50 per box, you can understand what a large margin of profit there exists for the benefit of coating these high grade plates on this side. As it is unnecessary to refer to our stand in bringing out and placing on the market the highest grades of plates that were ever introduced in this country not only as to quality but price as well, and after having been experimenting with one of the best pots known since last November, we unhesitatingly assert that while we have always demanded and paid for the very best roofing plates that money will buy, yet from our own personal supervision we have been able to produce a far better coated and a far better selected and a more evenly coated roofing plate throughout every part of the sheet than we have ever yet imported. We do not mean to charge the foreign manufacturers with duplicity, but we can only say that in not giving us as good goods as we can make on this side leads us to suppose that they either did not want to trouble themselves with experimenting with good goods that they could make, or they considered what they were sending good enough for Americans. We must confess that the result of our experiments (to say nothing of other brands of roofing plates that have been coated on this side) has now led us to unhesitatingly assert, and we will if necessary give bond that our firm can put a far better coated plate as to thickness on the American market than any English plate that has ever been imported or made so far. If there were any doubt in the mind of the American people that the better quality of American plates were not only to be made in future in America, and furthermore that they will always retain their hold in regard to quality, we would state that in the last few months two of the most important tin plate manufacturers in Wales have decided to produce their plates in America, and we know from actual personal knowledge that one of the firms have now their pots, engines, etc., on this side, and will be at work inside of two months. We would also state that a large number of the best Welsh workmen have come to America, and are now engaged in the industry on this side, and aided by their knowledge, under the personal supervision of the firms themselves, you need have no hesitation in asserting that no steps backward will be taken, and we are of the opinion that even if the duties were reduced to what they were before the McKinley bill, tin plates of the better grades would still be made in America, and they never can be driven out, simply because we have, all of us, in a short time demonstrated that we can put a better roofing plate on the market, after an experience of six months, than the Welsh mills have ever produced in a century that they have been making plates."

With a full knowledge of the facts here set forth, we trust that no American architect will be so stupidly conservative, not to say unpatriotic, as to still believe the old cant and rant that tin plate cannot be manufactured in this country as good and as cheap as anywhere abroad. That it can, and much better, is evident, and the architect who ignores the fact in his specifications will not be doing justice to his client nor to American manufacture.—*The Architectural and Building Monthly.*

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BUILDING MATERIALS.

	New York.	Boston.	Chicago.	Philadelphia.
LUMBER.—℔ M.	(*Wholesale Prices.*)		(*Prices to Builders and Contractors.*)	
Boards: (*Ordinary dimensions.*)				
Pine, 1st quality, clear	65 00 @ 75 00	50 00 @ 60 00	30 00 @ 47 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	25 00 @ 28 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	35 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	13 50 @ 25 00	*Not sold.*	16 00 @ 20 00
Hemlock	ea 13½ @ 14	13 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	25 00 @ 35 00	29 00 @ 37 00	14 00 @ 29 00
Cypress	@	31 00 @ 40 00	@	@ 35 00
Clapboards:				
Pine	@	38 00 @ 60 00	10 00 @ 22 00	14 00 @ 25 00
Spruce	@	23 00 @ 35 00	*Not sold.*	*Not sold.*
Framing Timber:				
Pine			12 00 @ 15 00	25 00 @ 37 30
Spruce	14 00 @ 18 00	15 00 @ 18 00	*Not sold.*	16 00 @ 18 00
Hemlock	12 00 @ 16 00	13 00 @ 15 00	10 00 @ 13 00	13 00 @ 17 00
Yellow pine	18 00 @ 21 00	24 00 @ 35 00		22 00 @ 28 00
Laths:				
Pine	@	2 25 @ 2 35	2 10 @ 2 25	2 75 @ 3 00
Spruce	2 85 @ 3 00	2 35 @ 2 50	*Not sold.*	2 30 @ 3 00
Shingles:				
Pine, shaved ℔ M.	5 00 @ 6 00	@	*Not sold.*	
Pine, sawed "	4 00 @ 5 00	@ 4 50	2 20 @ 3 00	
Spruce, sawed "	1 50 @ 2 00	1 50 @ 00	*Not sold.*	
Redwood ℔ 125	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	
Cedar split ℔ M.	@	@	*Not sold.*	30″ $35 @ 40
Cedar sawed "	@	2 00 @ 4 00	2 00 @ 2 35	24″ 8 @ 21
Cypress. Split....7 x 24. "	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	20″ 35 @ 14
				11 00 @ 14 00
Miscellaneous:				
Piles ℔ ft.	4½ @ 5½	Piles 6c. ℔ ft.	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 18 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.)	@	25 @ 50	9 @ 21	40 @ 1 25
Chestnut posts	@	25 @ 50	*Not sold.*	20 @ 30
Finishing Woods: ℔ M. (*First Qual.*				
Ash [*Kiln-dried.*]	@ 55 00	45 00 @ 60 00	30 00 @ 35 00	30 00 @ 40 00
Cherry	80 00 @ 120 00	90 00 @ 120 00	80 00 @ 110 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	50 00 @ 60 00	70 00 @ 80 00
Hard-pine floors (rift)		45 00 @ 50 00		
Mahogany, Baywood [Mexican]	@ 180 00	150 00 @ 160 00	150 00 @ 200 00	150 00 @ 250 00
St. Domingo	@ 350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
Oak, red	@ 70 00	@ 50 00	32 00 @ 40 00	45 00 @ 55 00
" white	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	35 00 @ 50 00	57 50 @ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	35 00 @ 50 00	@ 65 00
Redwood	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
Rosewood ℔ lb.	@ 6		@ 7	
Spruce floors (clear, kiln-dried)		32 00 @ 35 00		
Walnut, black	125 00 @ 150 00	85 00 @ 120 00	55 00 @ 100 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	40 00 @ 45 00	18 00 @ 40 00	25 00 @ 40 00
Yellow pine ℔ M.	@ 45 00	40 00 @ 42 00	29 00 @ 40 00	@ 45 00

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BRICK.—₱ M.				In Yard.
Common: *Cargo afloat.*	1 75 @ 2 00	Eastern	Building Brick	Sq. Hard @ 9 00
Pale	4 00 @ 4 75	9 00 @ 10 00	@ 6 50	" @ 7 00
Jersey	@	Bay State Hard		Salmon @ 5 00
Long Island	4 00 @ 4 75	7 00 @ 8 00		Sq. " @ 9 00
Up River	4 75 @ 5 00	Domestic Com.	Indiana Pressed	Light Stretchers
Haverstraw Bay 2d	5 00 @ 5 25	9 50 @ 10 00	14 00 @ 20 00	@ 10 00
" 1st	@ 13 00	Domestic Face	St. Louis Fronts	Medium "
Hollow		20 00 @ 22 00	@ 27 00	@ 12 00
Fronts:		Philadelphia		Red "
Croton, Brown	@ 13 00	40 00 @ 45 00		@ 13 00
" dark	@ 14 00	Phila. mould		Dark "
" red	@ 14 00	50 00 @ 80 00		@ 13 00
Chicago pressed (Anderson)			15 00 @ 27 00	Pressed
" Moulded			65 00 @ 350 00	@ 20 00
Baltimore	37 00 @ 41 00	Anderson	@ 55 00	Best Paving
Philadelphia	23 00 @ 24 00	14 00 @ 32 00	45 00 @ 50 00	@ 14 00
Trenton	22 00 @ 23 00		45 00 @	Second "
Milwaukee			25 00 @	@ 13 00
Moulded:			60 00 @ 100 00	Third "
Glens Falls Red Pressed	@ 37 00		30 @	@ 12 00
" " Buff "	@ 30 00		35 @	
" " Moulded Red & Buff	45 00 @ 70 00		55 00 @ 65 00	
Enamelled: *Imp.*				Dom. @ 65
Enamelled (edge)	85 00 @ 100 00		@ 100 00	@ 85
Enamelled (edge and end)	90 00 @ 115 00		@ 120 00	
CEMENT, LIME, etc.—(₱ *cask.*)				
Rosendale Cement	85 @ 95	1 20 @ 1 40	*Not sold.*	1 30 @ 1 50
Louisville "		Brooks, S. & Co.	1 05 @ 1 30	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	*Not sold.*	2 60 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs)	2 50 @ 3 00	2 60 @ 3 06	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	Josson
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	2 60 @ 2 75
" " (Hanover)	2 50 @ 3 00		*Not sold.*	3 00 @ 3 25
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	2 75 @ 2 85
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	2 70 @ 3 00
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	3 00 @ 3 50
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	6 50 @ 7 00
Lime:				8 00 @ 9 00
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30
Chicago Lime in bulk		St. John 1 00	55 @	White Mash
Wisconsin Lime			60 @	1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	1 00 @ 1 00
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
(casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ *bush.*	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lamont	@		35 @ 60	75 @ 1 50
Serpentine	@	10 50 per ton	@ 1 00	₱ Perch @ 4 00

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Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in.th.10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 11
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	}
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	55 @ 1 00
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	225 @ 4 00
" " Chapmans	@	@	7 30 @ 8 00	00 @ 4 65
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am. ... ℔ M.	@	@	*Not Sold.*	@ 25 00
N. Peach Bottom, warranted unfading	@	@	@	6 00 @ 6 75
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	40 @ 41	57 @ 60	@ 60
" " boiled	58 @ 65	43 @ 44	60 @ 63	@ 63
Turpentine	36 @ 37	@ 34	51 @ 51	@ 44
Varnish, coach	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty (℔ lb.)	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting (dry.)	75 @ 1 00	1 @ 1½	1 @ 1½	¾ @ 1
Paris white, (Eng.) (dry.)	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask
Butts: 4" x 4" ... (℔ doz. pairs.)				2 90 (all kinds.)
Plain	@ 1 00	@ 1 20	@ 90	@ 90
Japanned	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Acorn, Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 75
Ball Tip, Boston Finish ... (℔ pair.)	@ 65	@ 50	*Not Sold.*	48 @ 50
Bronze metal	@ 1 90	plain 1 65	2 00 @ 3 25	@ 1 25
Brass (for cupboards.)	@ 10	@ 10	@ 12	@ 1 00
Ebony	@	@	@	@ 35
Apple wood	@	@	@	37 @ 1 00
Knobs: (℔ *set.*)				
Mineral, best	@ 8	@ 8	8 @ 10	@ 08
Lava	@ 50	@ 75	65 @ 80	*Not Sold.*
Hemacite	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Porcelain	@ 30	@ 10	25 @ 30	@ 25
Glass, solid	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, silvered	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:	@	@	13 @ 16	13½ @ 16
Sheet Lead	@	@ 7½	@ 7	@ 6½
Lead Pipe	@	@ 6½	@ 6½	6 @ 6
Iron:				
I-Beams, up to and including 36 ft.	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ½, ¼, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 4-10	3 20 @ 3 70	@ 2 8-10

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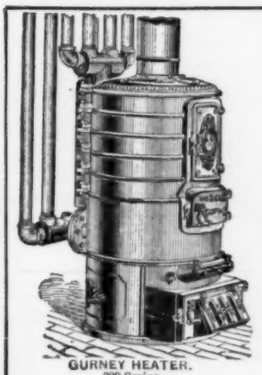

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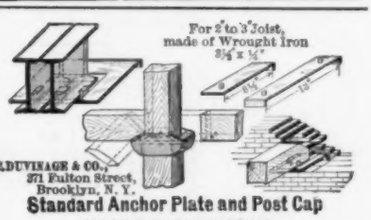

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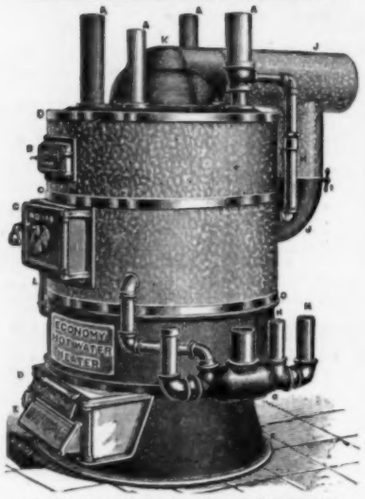

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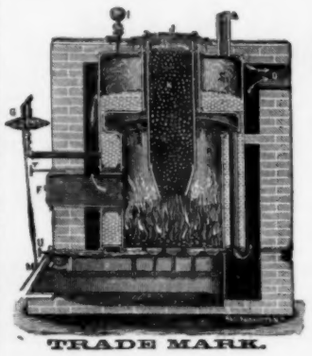

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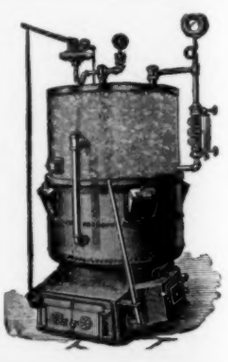

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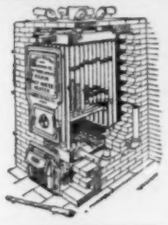

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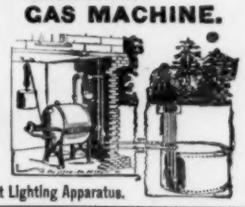

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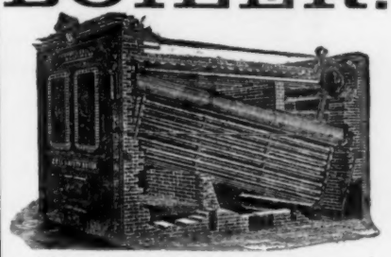

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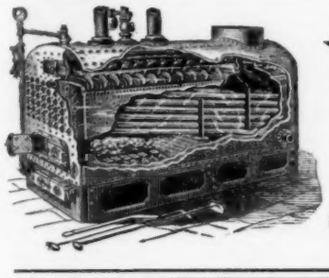

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THE following Report by Prof. J. S. Newberry, Professor of Geology and Paleontology in the Columbia College School of Mines, in which he has established a museum of 100,000 specimens of rare value, should be given due weight as being the opinion of the highest living authority upon the subject of which he writes.

Dr. Newberry was born in Windsor, Ct., December 23, 1822. He graduated from Western Reserve College in 1846, and from the Cleveland Medical College in 1848, spent two years in study abroad, and then began the practice of medicine in Cleveland, where he remained until 1855.

During this year he was appointed acting Assistant-Surgeon and Geologist to the party, which under Lieut. Robert S. Williamson, explored the country between San Francisco and the Columbia River. He assisted Lieut. Joseph C. Ives in the exploration of the Colorado River, and was with Capt. John N. Macomb, on the San Juan and Upper Colorado Rivers. In 1859 Prof. Newberry travelled over the plains of Southern Colorado, Utah, Northern Arizona and New Mexico.

In 1866 Prof. Newberry was elected Professor of Geology and Paleontology in the Columbia College School of Mines. In 1869 he was appointed State Geologist of Ohio.

Seven years ago he was appointed paleontologist to the United States Geological Survey, having charge of the investigation of fossils, botany and fishes. Western Reserve College conferred the degree of LL. D. upon him in 1867. In 1888 the Geological Society of London presented him with the Murchison gold medal. He is a member of the Scientific Societies of America and Europe, was named by Congress one of the corporate members of the National Academy of Science, has been President of the American Association for the Advancement of Science, and of the New York Academy of Science since 1867, and is President of the Torrey Botanical Club.

Dr. Newberry is the author of more than two hundred titles, and stands in the front rank of the mining experts of the world.

The Potsdam Sandstone from the quarries of the Potsdam Red Sandstone Company, has been used so extensively by builders of the United States and Canada, and its reputation is so well established, that it might seem that no further word was needed on this subject. It has been under my observation for many years in the public buildings at Ottawa, Canada, and elsewhere, and more particularly in the recently constructed buildings of Columbia College, New York. I had subjected the stone used at Columbia to microscopic observation, chemical analysis and physical tests, at the time when the choice of stone was under consideration by our architect. From these experiments I had learned as I supposed all that it was necessary to know about the stone, viz: that it was a dark red banded sandstone, having a resistance to a crushing force of 17,000 to 18,000 pounds per square inch; that it consisted of silica with a slight ingredient of iron, from which it took its color, and preferable so far as strength, homogeneousness and durability were concerned to any other sandstone known to me. I therefore unhesitatingly recommended its use, and I have never since had occasion to change my mind in regard to its superiority. Still, when I went over the ground and examined the stone in place, and noticed the marked difference in the stone of the different quarries of this company, and especially when I had subjected a new series of specimens to tests for physical strength, I found that I had much to learn in regard to its variety and excellence.

In the first place I discovered that instead of one, there are at least three marked varieties of this stone, possessing different degrees of strength and shades of color, affording to the architect a means of securing a range of effects, when used either singly or in combination. Also, that the stone which we had used at Columbia, though possessing greater strength than any sandstone submitted to trial, was far surpassed in this respect by some of the other varieties attainable, and that the strongest not only exceeded in strength all other varieties of stone tested at the School of Mines, but even resisted the full crushing force of the powerful Emery testing-machine, which we have recently had constructed, and which was supposed to be capable of reducing to powder any building stone submitted to its action. The resistance to crushing force in the specimens tested, varied from 18,401 pounds to the square inch to 42,804, or rather to and beyond the extreme crushing force of our machine; for it was found impossible to overcome with the machine the resistance of two inch cubes of the strongest stone, although the pressure was carried up to 151,000 pounds. Hence we can say that the resistance to crushing force, of the strongest variety, exceeds 42,000 pounds to the square inch, a result greater than we have obtained from tests on granite of any kind, from trap or any other variety of building stone.

The element of beauty is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C.

As I have said, I was surprised to find in the different quarries of this Company so many varieties of color in the stone. In the west quarries, the typical "Red Potsdam," either plain or banded, prevails. On their southern tracts are outcrops of homogeneous and monochrome, chocolate-colored stone in heavy ledges, which will yield blocks of any desired size, while in their quarries on the east side are exposed about fifty feet of rather massive layers, separated by a band of fifteen feet of foundation orbri dge stone. The upper and lower bands composing the fifty feet referred to, are mainly of light colored homogeneous stone, to which I was a stranger before visiting the quarries. This is of a reddish cream-color, very uniform in tint and pleasing to the eye. It comes out in layers from two to six feet in thickness and splits with ease and certainty in any direction. With the chocolate-colored stone, to which reference has been made it may be combined with fine effect, one variety being used for trimming to the other, as corner stones, door and window caps, porches, etc., or associated as block stones in plain walls.

This cream-colored variety works with comparative ease, and may be wrought into moulding and ornaments, much more cheaply than the harder varieties, which will be best used when hammer dressed, a style of treatment to which every phase of the stone will lend itself, as it breaks true and even under the hammer.

The different tracts of land controlled by this Company comprise about two hundred acres, distributed for about a mile up and down Racquette river, and selected with judgment so as to embrace the best outcrops of stones found in the district. On all these tracts the Potsdam sandstone is practically the surface rock, being covered only with a layer of greater or less thickness of boulder clay. In quantity, therefore, the quarries are practically inexhaustible, and it is not too much to say that they may be worked for centuries without embarrassment.

J. S. NEWBERRY.

The stone from the quarries of this Company is unexcelled for beauty of color and effect. As the only way that architects can get an idea of the color of the stone is by inspection of a sample, we shall be glad to forward samples and full information to architects who may apply for the same.

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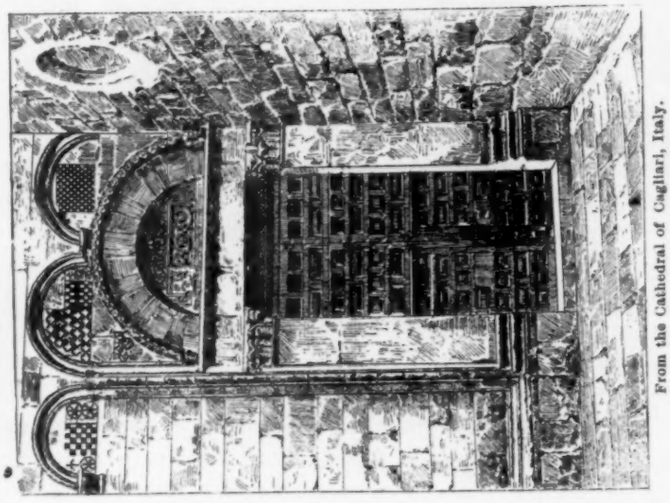
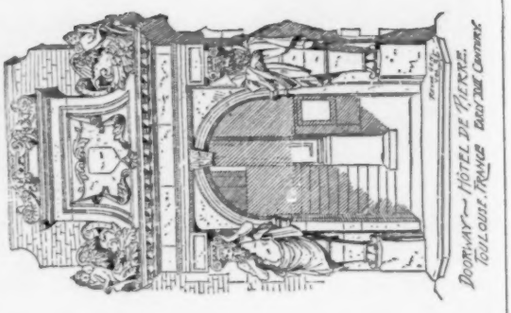
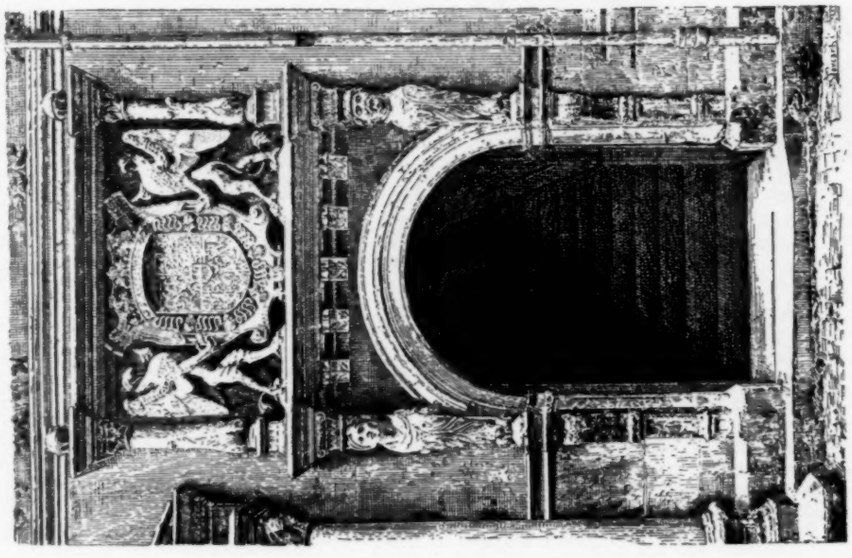


From the Cathedral of Cagliari, Italy.

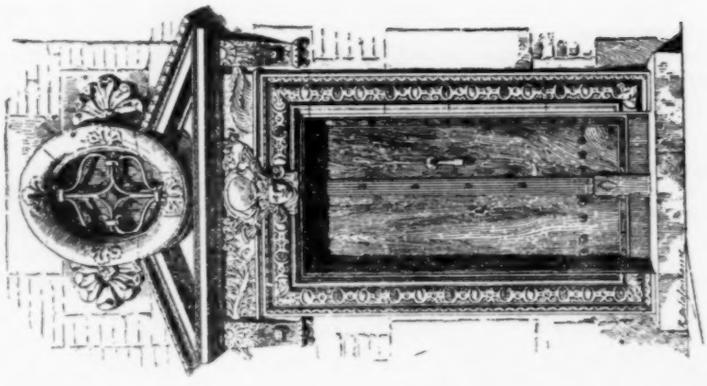


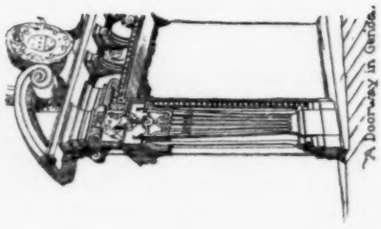
Doorway — Hôtel de Vulpere. Toulouse, France. Early 16th Century.



From the Maison des Halles, Neuchâtel, Switzerland.

DOORWAYS.





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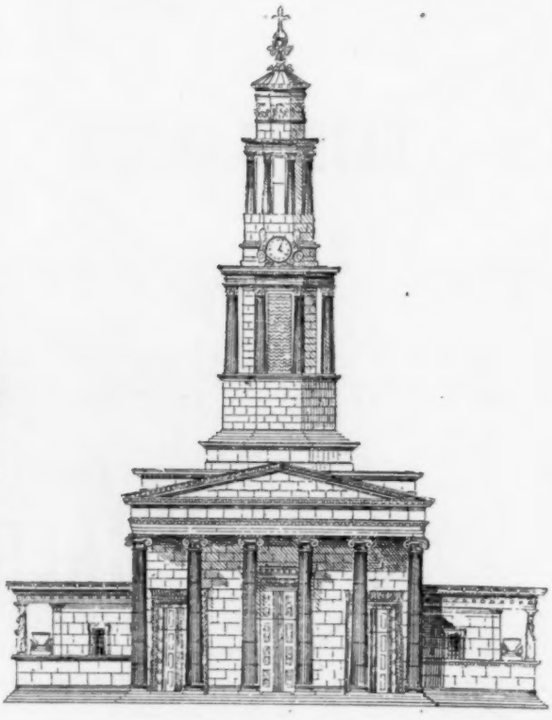

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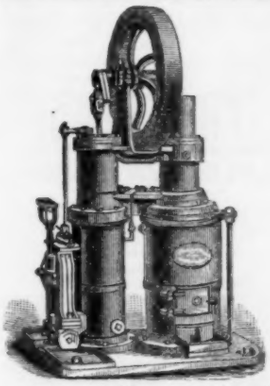

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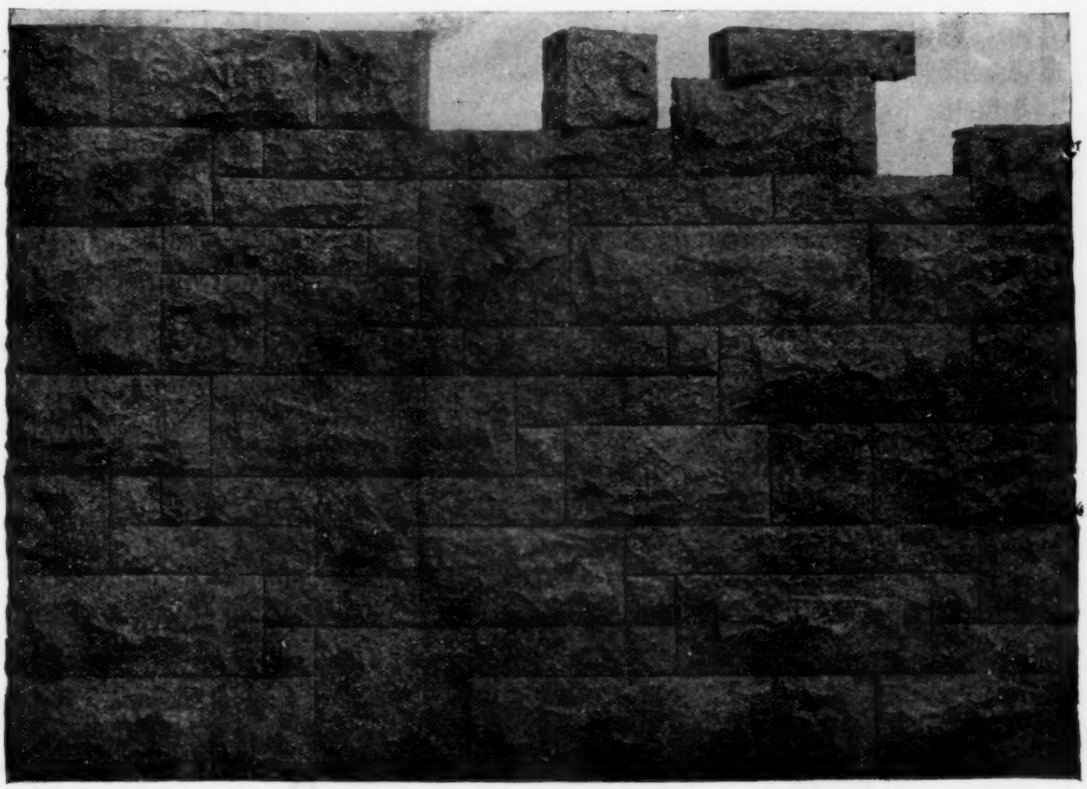

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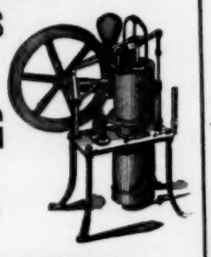

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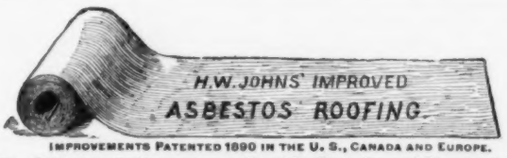

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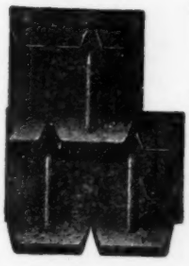

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BUILDING PATENTS.

[*Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.*]

479,398. WINDOW-BLIND. — Henry T. Buhmeier, Elgin, Ill.

479,400. RADIATOR-VALVE DEVICE. — John Collis, Des Moines, Iowa.

479,405. GARBAGE OR REFUSE CREMATORY. — Alfred G. Delanoy, New York, N. Y.

479,409. SASH-FASTENER. — John L. Ebert, Farmington, N. Y.

479,412. COMBINATION LOCK. — John F. Foster, Marceline, Mo.

479,413. SEMI-DIRECT RADIATOR. — Arthur H. Fowler, Buffalo, N. Y.

The following advertisements are omitted in this issue in favor of the Classified Index.

Blake Bell Co.
L. Haberstroh & Son.
Huyett & Smith Mfg. Co.
Hydraulic-Press Brick Co.
J. Miller & Bro.
New Jersey Wire Cloth Co.
Oakley & Keating.
Passaic Rolling Mill Co.
Perth Amboy Terra-Cotta Co
Randolph & Clowes.
Smith & Egge Mfg. Co.
E. Thiele.
Tirrill Gas-Machine Co.
Tucker & Sons.
E. Van Noorden & Co.
J. Williams.
E. H. Wootton.

BUILDING PATENTS.

479,429. WASH-BASIN. — James Kelly, Chicago, Ill.

479,433. WINDOW OR DOOR SASH. — George B. Lee, Providence, R. I.

479,441-442. TILE. — Frederick N. Marvick, San Mateo, and John Walter, Winter Haven, Fla.

479,448. FIRE-EXTINGUISHER. — William W. McKay, Dickinson, N. D.

479,463. HEATING-APPARATUS. — Mary Roe, Dayton, Minn.

479,483. INDICATOR FOR ELEVATORS. — Edward Wylde, Chicago, Ill.

479,499. CHANNELLING-TOOL FOR ROCKS. — George M. Githens, Brooklyn, N. Y.

479,500. BLASTING-STONE. — George M. Githens, Brooklyn, N. Y.

479,521. SPIRIT-LEVEL FOR MEASURING-TAPES. — Ernest McCullough, San Francisco, Cal.

479,526. MECHANICAL MOVEMENT. — George H. Reynolds, New York, N. Y.

479,533. DRAWBRIDGE FOR SIDEWALKS, ETC. — John F. Schultz, Brooklyn, N. Y.

479,539. MATRIX-MAKING MACHINE. — Charles L. Travis, Minneapolis, Minn.

479,559. ELEVATOR. — Charles W. Collins, Granite, Mont.

479,567. TRANSOM-LIFTER. — James M. Maddox, Birmingham, Ala.

479,586. HOT-AIR REGISTER. — Richard S. T. Cissel, Elizabeth, N. J.

479,591. SCAFFOLD. — Frank B. Gilbreth, Boston, Mass.

479,595. SASH-FASTENER. — George G. Hopkins, Brooklyn, N. Y.

479,617. SEPARATOR FOR CRUSHED CEMENT, ETC. — Joseph R. Berthelet, Milwaukee, Wis.

479,640. COMPOUND FOR PRESERVING THE COLOR OF FINISHING-BRICKS. — Jacob D. Graybill, Shreveport, La.

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479,662. SCAFFOLD-BRACKET. — Charles Ragsdale, Purdy, Mo.

479,663. BRICK-CUTTING MACHINE. — Horace A. Riggs, Plymouth, Ohio.

479,712. EARTH-CLOSET. — Hamilton A. Jukes, Winnipeg, Canada.

479,752. WINDOW-SCREEN. — Willard E. Cobb, Portland, Me.

479,761. TEMPERATURE-REGULATOR. — Washington H. Kilbourn, Greenfield, Mass.

479,769. HOT-AIR FURNACE. — William Thuener, Jr., and Paul Herchenbach, St. Louis, Mo.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING AUGUST 19, 1892.

From Amsterdam. — Steamer "*Rotterdam*," 2,000 casks cement, M. Ebert.

From Antwerp. — Steamer "*Pennland*," 1,000 barrels cement, M. Ebert; 5 blocks marble, Taber & Co.; 3,000 barrels cement, order. Steamer "*Westernland*," 1,000 barrels cement, Morris Ebert; 4,250 do., order.

From Bremen. — Steamer "*Muenchen*," 504 casks cement, Baetjer & Meyerstein; 1,064 do., order.

From Curacoa. — Steamer "*Philadelphia*," 10 barrels asphalt, Boulton, Bliss & Dallett.

From Genoa. — Steamer "*Birmania*," 56 blocks marble, G. Amsinck & Co.; 52 do., 800 slabs do., 8 cases do., Taber & Co.

From Gibaca. — Brig "*Margaret E. Dean*," 616 logs cedar and mahogany, J. W. Wilson & Co.

From Glasgow. — Steamer "*State of Nebraska*," 16 cases granite, New York Granite Co.; 95 do., Austin, Baldwin & Co.; 11 blocks stone, G. P. Sherwood; 164 do., 16 casks do., 1 case do., Pike Manufacturing Co.; 10,000 fire-bricks, 10 casks do., order. Steamer "*Furnessia*," 26 blocks stone, G. P. Sherwood; 9 cases granite, R. F. Downing & Co.; 30 barrels cement, 14 half-barrels do., 12 gross do., Henderson Bros.

From Hamburg. — Steamer "*Slavonia*," 840 casks cement, E. Thiele. Steamer "*Rhætia*," 2,008 casks cement, order.

From Havana. — Steamer "*City of Alexandria*," 180 logs mahogany, order. Steamer "*Saratoga*," 168 logs mahogany and cedar, order.

From Liverpool. — Steamer "*Tauric*," 4 logs mahogany, C. A. Haynes & Co.

From London. — Steamer "*Greece*," 500 casks cement, Bank of British North America; 1,000 do., Charles J. Stevens; 3,100 do., order. Steamer "*Buffalo*," 500 casks cement, Brown Bros. & Co.; 1 brick, Excelsior Hardware Co.; 500 casks cement, order. Steamer "*Mississippi*," 600 casks cement, E. Thiele; 750 do., 2,250 do., 7 logs wood, order.

See last or next issue for the following advertisements.

E. D. Albro Co.
Alsen's Cement Works.
J. W. Boughton.
Chrome Steel Works.
Continental Insurance Co.
Cortright Metal Roofing Co.
F. E. Cudell.
F. W. Devoe & Co.
Frey, Sheckler Co.
Howson & Howson.
C. P. Karr.
Kinnear & Gager Co.
Link-Belt Engineering Co.
E. B. Moore & Co.
Pittsburgh Plate Glass Co.
Spaulding & Moss.
B. F. Sturtevant.
J. S. Thorn.

See the first issue of the month for the following advertisements.

Adamant Mfg. Co.
Brooks, Shoobridge & Co.
Bureau Bros.
Dubois Mfg. Co.
Esterbrook Pen Co.
I. P. Frink.
H. M. Hansen.
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J. J. Read.
James H. Rush & Co.
Schwartz Mfg. Co.
J. B. Shannon & Sons.
E. Thiele.
A. B. & W. T. Westervelt.

IMPORTS OF BUILDING MATERIALS, Etc.

From Marseilles. — Bark "*Ole Boe*," 300 tons asphalt, E. H. Wootton.

From Stettin. — Steamer "*Hekla*," 4,200 barrels cement, Emil Kauter.

From St. Jago. — Steamer "*Cienfuegos*," 13 logs mahogany, Henry W. Peabody & Co.; 118 do., Willard Hawes & Co.; 31 do., 76 do. cedar, G. Amsinck & Co.; 47 do., Jacob Henkell & Co.; 130 do. mahogany, C. F. Ferrer & Bros.

From Tocolutla, Mexico. — Brig "*Caroline Gray*," 320 logs mahogany and cedar, G. Amsinck & Co.

From Trinidad. — Schooner "*Arecuna*," 700 tons asphaltum, order.

From Vera Cruz. — Steamer "*City of Alexandria*," 149 blocks marble, Wm. W. Thomas & Co.; 44 bags asphalt, Thebaud Bros.

From Windsor, N. S. — Schooner "*Gypsum Princess*," 107 tons plaster, J. F. Whitney & Co.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[*Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.*]

ALTERATIONS.

Camden, N. J — *Division St., No.* 405, alteration to frame dwell.; owner, John Kline.

Sycamore St., s e cor. Seventh St., alteration to frame dwell.; owner, Isadore Green.

South Eighth St., No. 829, alteration to brick store; owner, James M. Ross.

Montreal, Can. — *Sherbrooke St.*, three-st'y addition to convent; cost, $8,000; owners, Sisters of the Good Shepherd; architect, J. Esinhart, 11 Place d' Armes Hill.

Notre Dame St., alteration and addition to the Hochelaga Cotton Mills; architect, J. J. Browne, 207 St. James St.

Providence, R. I. — *Harrison St.*, e s, bet. Cranston and Willson Sts., two-and-one-half-st'y addition to frame school building; owner, Parish St. Charles; architects, Stone, Carpenter and Willson.

Packet St., s s, three-st'y brick addition; owner, Oakdale Mfg. Co., architects, Stone, Carpenter & Willson; builders, H. L. Bassett & Co.

APARTMENT-HOUSES.

Chicago, Ill. — Chapman Bros., eight-st'y apartment building, 6200-6208 Oglesby Ave.; cost, $150,000.

Carl A. Lothgren, two-st'y flats, 110 Fifty-ninth St.; cost, $3,000.

Shields & Cook, 2 three-st'y flats, 5453-5455 Tracy St.; cost, $30,000.

Anna Prochaska, three-st'y flats, 124 Washburne Ave.; cost, $4,000.

John L. Vandermark, 9 three-st'y flats, 148-154 Sixty-eighth St.; cost, $30,000.

Henry Gross, 2 four st'y flats, 290-292 Rush St.; cost, $12,000.

M. Fischer, two-st'y flats, 612 Burling St.; cost, $5,000.

John Welnhan, three-st'y flats, 6 Hull St.; cost, $4,000.

William Rogda, three-st'y flats, 217 West Thirteenth St.; cost, $5,000.

Albert L. Peske, three-st'y flats, 234 Orchard St.; cost, $5,600.

H. Le Brun, four-st'y flats, 104 Emerson St.; cost, $3,000.

Melcher Joseniak, three-st'y flats, 789 West Seventeenth St.; cost, $4,800.

(*Continued on page* xvii.)

FACTS ABOUT

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BUILDING INTELLIGENCE.

George E. Jacobson, three-st'y flats, 969 Kedzie Ave.; cost, $5,000.

C. L. Schaffer, two-st'y flats, 985 Walnut St.; cost, $4,500.

Michael Knight, two-st'y flats, 23 Maplewood Ave.; cost, $3,000.

Langland Estate, 2 two-st'y flats, 1837-1841 Frederick St.; cost, $12,000.

C. Goge, two-st'y flats, 1237 Montana St.; cost, $4,000.

Bandon & Gandey, 2 three-st'y flats, 1143-1145 Wrightwood Ave.; cost, $22,000.

W. S. Johnson, 2 four-st'y flats, 5338 Washington Ave.; cost, $28,000.

New York, N. Y. — *Eleventh Ave.*, s w cor. Forty-third St., five-st'y brick flat, tin roof; cost, $48,000; owner, Wm. Bishof, Jr., 287 West Forty-second St.; architect, M. V. B. Ferdon, 265 West Thirty-fourth St.

One Hundred and Twenty-second St., n s, 60′ e Lexington Ave., 2 five-st'y brick flats, tin roofs; cost, $22,500; owner, Alexander A. Jordan, 948 Second Ave.; architects, Neville & Bagge, 260 West One Hundred and Twenty-fifth St.

Downing St., s s, 182′ w Bedford St., five-st'y brick flat, tin roof; cost, $28,000; owner, Samuel W. B. Smith, 1237 Franklin Ave.; architect, John Hauser, 1441 Third Ave.

One Hundred and First St., s s, 75′ e Madison Ave., 3 five-st'y brick flats, tin roofs; cost, $54,000; owner, Salvatore Panella, 3 Bleecker St.; architect, Thomas Graham, 1236 Madison Ave.

Worcester, Mass. — *Gold St.*, four-st'y brick apartment-house; owner, E. Mange; contractor, U. Jacques; architect, Geo. H. Clemence.

CHURCHES.

New York, N. Y. — *One Hundred and Thirty-ninth St.*, s s, 85′ e Edgewood Ave., one-st'y brick church, peak, slate roof; cost, $8,000; owner, Lenox Presbyterian Church, 215 West One Hundred and Fourth St.; architect, Joseph Inland, 487 Manhattan Ave.

FACTORIES.

Montreal, Can. — *St. Urbain St.*, factory-building; owners, Grothe Bros.; architect, Chas. Chaussé, 107 St. James St.

New York, N. Y.—*Madison St.*, s e cor. Clinton St., six-st'y brick factory, tin roof; cost, $23,000; owner, Benjamin Kaiser, 212 Clinton St.; architects, Schneider & Herter, 48 Bible House.

South Fifth Ave., Nos. 239-241, seven-st'y brick factory, tin roof; cost, $45,000; owner, Alfonso Kimball, 727 Park Ave.; architect, Douglas Smythe, 48 Exchange Pl.

Birmingham St., Nos. 6-8, six-st'y brick factory, tin roof; cost, $12,000; owner, Louis Krulewitch, 274 East Broadway; architect, Adam Munch, 307 East One Hundred and Fifteenth St.

Philadelphia, Pa. — *Bread St., Nos.* 228-230, three-st'y brick factory; builder, Chas. P. Nesbitt, 425 Locust St.

HOSPITALS.

Philadelphia, Pa. — *Woodland Ave.*, w s, n Seventieth St., hospital and dwell.; builder, W. R. Dougherty, 1604 Sansom St.

HOTELS.

Chicago, Ill. — Chicago Beach Hotel Co., six-st'y hotel, Fifty-first St. and the Lake Shore; cost, $400,000.

Mrs. L. Conniey, three-st'y hotel, 1475 State St.; cost, $8,000.

HOUSES.

Atlanta, Ga.—Two-st'y frame and brick dwell.; cost, $12,000; owner, Mr. Rogers; architect, W. H. Archer, 13 West Huron St., Buffalo, N. Y.

Baltimore, Md. — J. Diacont, three-st'y brick building, s s Eastern Ave., bet. Central Ave. and Eden St.

J. Kemp Bartlett, 2 three-st'y brick buildings, Mt. Royal Road and Reservoir St,

Shawacre, Sands & Walstrom, 9 three-st'y brick buildings, e s Robert St., beg. s e cor. Lennox St.

German Lutheran Christian Congregation, 3 two-st'y brick buildings, n s Beacon St., beg. n e cor. Lowman St.

Jos. F. Krauss, 11 two-st'y brick buildings, e s Pulaski St., bet. McHenry and Wilhelm Sts.

George W. Parks, 5 three-st'y brick buildings, w s Monroe St., bet. Edmondson Ave. and Franklin St.; and 9 two-st'y brick buildings, s s White St., w Monroe St.

J. K. Hubbard, 5 three-st'y brick buildings, e s John St., s Mosher St.

J. W. Hoffacker, 6 two-st'y brick buildings, e s Spring St., bet. Federal and Oliver Sts.

Beaconsfield, Que. — Dwell.; owner, Mrs. Looke; architect, J. R. Gardner, 185 St. James St., Montreal.

Belleville, Essex Co., N. J.—Two-st'y frame dwell; owner, J. H. Osborn.

Boston, Mass. — *Albany St., rear*, nearly opp. Randolph St., Ward 17, three-st'y frame dwell., flat roof, 70′ x 100′; owners, L. L. & C. W. Johnson.

Hartford St., near Chamblet St., Ward 20, frame dwell., 21′ x 46′; owner and builder, A. P. Clifford.

Kent St., No. 13, Ward 19, three-st'y frame dwell., flat roof, 25′ x 37′; owner and builder, M. J. O'Brien.

West Seldon St., near Merton St., Ward 24, frame dwell., 22′ x 31′; owner, Valentine Dreilie; builder, W. McLaughlin.

Minot St., No. 53, Ward 24, three-st'y frame dwell., flat roof, 23′ x 44′; owner, J. McCluskey; builder, W. J. Hatch.

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BUILDING INTELLIGENCE.

Ashfield St., near Fairview St., Ward 23, frame dwell., 22.6′ x 36.6′; owner, F. W. Cheney; builder, T. Condon.

Centre St., near Linwood St., Ward 21, 2 three-st'y frame dwells., flat roofs, 25′ x 55′; owner, S. Lippman; builder, G. Merz.

Harrison Ave., No. 1111, Ward 20, three-st'y brick dwell., flat roof, 35′ x 49′; owners, P. B. and E. B. Goodsell.

Commonwealth Ave., near Charles Gate W., Ward 22, four-st'y brick dwell., flat roof, 24′ x 60′; owner, Joseph Bennett; builder, C. A. Dodge.

St. Stephens St., near Gainsborough St., Ward 22, 2 three-st'y brick dwells., flat roofs, 25′ x 66′; owner, H. M. Whitney; builder, C. A. Dodge.

Alleghany St., No. 74, Ward 22, frame dwell., 27′ x 40′; owner, C. E. Thacher; builder, W. Ballantine.

Eldon St., near Rossiter St., Ward 24, frame dwell., 23.6′ x 41′; owner, Sarah E. Howe; builder, J. A. Paine.

Millett St., near Wheatland Ave., Ward 24, three-st'y frame dwell., flat roof, 23′ x 44′; owner, John McCue; builder, D. J. Gillis.

Cross St., near Hillside Ave., Ward 23, three-st'y frame dwell., pitch roof, 32′ x 42′; owner, Alice T. Dunn; builder, T. M. Kelly.

Kingsbury St., Nos. 12-20, Ward 21, 5 three-st'y frame dwells., flat roofs, 30′ x 42′ and 21′ x 46.6′; owner and builder, J. J. Johnston.

Heath St., near Hayden St., Ward 22, 2 three-st'y frame dwells., flat roofs, 23′ x 40.4′; owner, W. Jacobs; builder, P. B. Ryan.

Fellows St., Nos. 90-92 *and rear* 90, Ward 20, 7 three-st'y brick dwells., flat roofs, 20′ x 35′; owner, Timothy Connolly; builder, P. J. Connolly.

Worthington St., Nos. 30-32, Ward 22, 2 three-st'y brick dwells., flat roofs, 23.6′ x 61′; owner, Patrick Grinham; builders, Mulligan & Gorman.

Evelyn St., near Norfolk St., Ward 24, frame dwell., 29′ x 39′; owner, W. F. Lowell; builder, J. P. Campbell.

Evans St., cor. Dyer St., Ward 24, frame dwell., 25′ x 35.6′; owner, T. P. Stearns; builder, John Purdy.

Puritan Ave., near Wales Pl., Ward 24, frame dwell., 25′ x 30.6′; owner and builder, G. L. Davidson.

Lyndehurst St., near Washington St., Ward 24, frame dwell., 25.6′ x 34′; owner, J. Y. Beal.

Glen Road, near Erie St., Ward 24, 2 three-st'y frame dwells., flat roofs, 22′ x 56′; owner, E. L. Rexford; builder, C. C. Turner.

Forbes St., near Centre St., Ward 23, three-st'y frame dwell., flat roof, 24.4′ x 46.4′; owner, Mrs. John Murphy; builders, Pierce Bros.

Draper St., near Westville St., Ward 24, frame dwell., 22′ x 40′; owner, H. C. Towle; builder, Peter Riley.

Chelsea St., No. 130, Ward 2, three-st'y frame dwell., flat roof, 21.6′ x 47′; owner, F. Finch; builders, J. McInnis & Co.

Humboldt Park, near Bower St., Ward 21, frame dwell., flat roof, 22′ x 42.10′; owner, J. D. Boyd; builder, J. W. Priesing.

Tremont St., No. 1571, Ward 22, four-st'y frame dwell. and store, flat roof, 22.6′ x 66′; owner, John Burns; builder, R. D. Ward.

Mayfield St., near Pleasant St., Ward 24, frame dwell., 28′ x 50′; owner, Mary E. Powell; builder, John Bass.

Tremont St., No. 1569, cor. Bumstead Lane, Ward 22, four-st'y frame dwell. and store, flat roof, 22.6′ x 66′; owner, John Burns; builder, R. D. Ward.

Selkirk Road, near Kilsyth St., Ward 25, frame dwell., gable roof, 32′ x 46′; owner, F. S. Smith; builders, L. P. Martin & Co.

Bolton St., No. 266, Ward 14, three-st'y frame dwell., flat roof, 22′ x 34′; owner, Mary F. O'Brien; builder, W. T. Eaton.

School St., near Washington St., Ward 23, frame dwell., 30′ x 42′; owner and builder, James Devine.

Bridgewater, Mass. — Frame dwell.; owner, A. C. Boyden; contract to be let; architects, Hartwell & Richardson, Boston.

Brookline, Mass. — Frame dwell.; owner, Franklin Hobbs; builder, F. S. Stevens; architects, Hartwell & Richardson, Boston.

Seaver Road, frame dwell.; owner, Chas. A. Fuller; builder, James McNeil; architects, Hartwell & Richardson, Boston.

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BUILDING INTELLIGENCE.

Ave., 13 two-st'y frame dwells., tin roofs; cost, $2,000 each; owner and architect, M. F. Walsh, 74 Rockaway Ave.

Livingston St., s s, 82′ w Flatbush Ave., 2 four-st'y brick dwells., tin or galvanized iron roofs; cost, $9,000 each; owner, Wm. Spence, 372 Livingston St.; architects, Parfitt Bros., 26 Court St.

Lorimer St., w s, 25′ s Conselyea St., two-st'y frame dwell., tin roof; cost, $3,500; owner, Josephine Zobie, 243 Lorimer St.; architect, Th. Engelhardt, 905 Broadway.

Sunnyside Ave., s s, 250′ w Miller Ave., two-st'y frame dwell., tin roof; cost, $3,000; owner, Charles Pfeiffer, New Jersey Ave.; architect, Chas. Infanger, 126 Van Siclen Ave.

McDougal St., No. 39, three-st'y frame dwell., tin roof; cost, $5,400; owner, Arno Greiner, 1956 Fulton St.; architect, Chas. Infanger, 126 Van Siclen Ave.

Cornelia St., n s, 200′ e Evergreen Ave., 2 three-st'y frame dwells., tin roofs; cost, $4,500 each; owner, R. Hedbawney, 278 Delancey St., New York City; architects, Moores & Le Quesne, 1450 Broadway, New York City.

De Kalb Ave., n s, 250′ w Knickerbocker Ave., two three-st'y frame dwell. and stable, tin roofs; cost, $3,400; owner and builder, Constantin Reichert, 303 Palmetto St; architect, E. Schrempf, 534 Bushwick Ave.

Stockholm St., n s, 330′ w St. Nicholas Ave., three-st'y frame dwell., tin roof; cost, $3,000; owner, Rosa Loeffler, 438 Harmon St.; architect, Henry Loeffler, 438 Harmon St.

Quincy St., s s, 91′ w Classon Ave., 2 two-st'y brick dwells., felt and gravel roofs; total cost, $10,000; owner, Henry De Zavala, 419 Monroe St.; architect, John L. Young, 287 Halsey St.

Fourteenth St., s s, 315′ e Eighth Ave., 6 two-st'y brick dwells., tin roofs; cost, $4,000 each; owner, Wm. Hawkins, 449 Fourteenth St.

Essex St., w s, 420′ n Ridgewood Ave., 3 two-st'y frame dwells., tin roofs; cost, $2,500 each; owner and builder, Andrew Walker, 77 Essex St.

Colyer St., n w cor. Lorimer St., three-st'y brick dwell., gravel roof; cost, $5,000; owner, Harriet Post, 709 Leonard St.; architect, W. H. Post, Russell St. and Norman Ave.

Prospect Pl., s s, 100′ e Vanderbilt Ave., 4 two-st'y brick dwells., tin roofs; cost, $4,500 each; owner, W. D. Boggart, Russell Pl., near Herkimer St.; architect, Charles Infanger, 126 Van Siclen Ave.

Nassau Ave., s s, 100′ e Diamond St., 3 three-st'y frame dwells., gravel roofs; cost, $4,500; owner, David E. Morris, 127 Manhattan Ave.; architect, P. Tillion, 202 Manhattan Ave.

Himrod St., n s, 250′ e Evergreen Ave., three-st'y brick dwell., tin roof; cost, $6,000; owner, architect and builder, Ernest Loerch, on premises.

Rockaway Ave., e s, 25′ n Dean St., 6 three-st'y frame dwells., tin roofs; cost, $2,000 each; owner and builder, H. Seerman, Rockaway Ave.; architects, Danmar & Fischer, Atlantic and Van Siclen Aves.

Greene Ave., s s, 250′ w Patchen Ave., two-st'y brick dwell., tin roof; cost, $3,900; owner and builder, Wm. Riker, 977 Gates Ave.; architect, Henry M. Riker, 987 Gates Ave.

Grattan St., n s, 325′ w Porter Ave., 2 three-st'y frame dwells., tin roofs; total cost, $9,000; owners and builders, Kleinklaus & Hestermann, 51 Grattan St.

Herkimer St., s e cor. Columbus Pl., three-st'y frame dwell., tin roof; cost, $4,000; owner, Adam Pfeifel, Columbus Pl.; architect, Wm. Waldron, 1873 Pacific St.

Leonard St., e s, 99′ 9″ n Ten Eyck St., three-st'y frame dwell., tin roof; cost, $3,000; owner, Thomas L. Inverarity, 180 Leonard St.; architect, F. J. Berlenbach, Jr., 260 Graham Ave.

Dean St., n s, 100′ n Nostrand Ave., 5 three-st'y brick dwells., tin roofs; cost, $6,500 each; owner and builder, Thomas Brown, 667 Tenth St.; architect, J. D. McAuliffe, 319 Flatbush Ave.

Hendrix St., w s, 175′ n Arlington Ave., two-st'y frame dwell., shingle roof; cost, $3,000; owner, Miss M. Milan, Hendrix St., near Arlington Ave.; architects, Danmar & Fischer, Atlantic and Van Siclen Aves.

Greene Ave., n s, 150′ e Hamburg Ave., 2 three-st'y frame dwells., tin roofs; cost, $12,000; owners and builders, F. W. & C. W. Kaiser, 28 Harman St.; architect, Frank Holmberg, 1169 Broadway.

Decatur St., n s, 25′ w Patchen Ave., 10 two-st'y brick dwells., tin roofs; cost, $4,000 each; owner, Ferdinand B. Briggs, 240 Decatur St.; architect, Henry Vollweiler, 483 Hart St.

Underhill Ave., w s, 57′ s Prospect Pl., 2 two-st'y brick dwell, tin roofs; cost, $5,000 each; owner, Ronald M. Nichol, 36 Clinton Pl.; architect, G. A. Schellinger, 128 Broadway.

Fountain Ave., e s, 25′ n Eastern Parkway, 16 two-st'y frame dwells., shingle roofs; cost, $1,500 each; owner and builder, J. B. Benta, 181 Broadway; architect, Wm. Danmar, Atlantic and Van Siclen Aves.

BUILDING INTELLIGENCE.

Fountain Ave., w s, 25′ n Eastern Parkway, 16 two-st'y frame dwells.; cost, $1,500 each; owner and builder, J. B. Benta, 181 Broadway; architect, Wm. Danmar, Atlantic and Van Siclen Aves.

Fourteenth St., s s, 10′ 6″ e Eighth Ave., two-st'y brick dwell., tin roof; cost, $3,200; owner, F. Klug, on premises; builder, John Kolle, Fourth Ave. and Twenty-third St.

St. Marks Ave., n s, 275′ e Troy Ave., 3 three-st'y frame dwells., tin roofs; cost, $2,400 each; owner, Mrs. Rebecca Wood, 1475 Bergen St.; architect, W. Ultzen, 612 Herkimer St.

Evergreen Ave., e s, 20′ n Van Voorhis St., 4 two-st'y frame dwells., tin roofs; cost, $2,500 each; owner, Chas. F. Gastmeyer, 623 Evergreen Ave.

Sackman St., w s, 100′ n Eastern Parkway, 2 three-st'y frame dwells., tin roofs; cost, $4,500; owner, Abraham Ruth, Osborn St.

Hancock St., s e s, 20′ s w Evergreen Ave., three-st'y frame dwell., tin roof; cost, $3,500; owners and builders, Cozine & Gascoine, 1223 Bushwick Ave.; architect, Chas. E. Austin, 1223 Bushwick Ave.

Java St., s s, 250′ w Oakland Ave., two-st'y frame dwell., gravel roof; cost, $4,000; owner, Mrs. C. Van Horn, 120 Java St.; architects, Randall & Miller, 16 Bedford Ave.

Prospect Pl., s s, 298′ e Vanderbilt Ave., 4 two-st'y brick dwells., tin roofs; cost, $4,500 each; owner, Geo. Burke, 997 St. Marks Ave.; architect, M. F. Walsh, 74 Rockaway Ave.

Fourteenth St., n s, 267′ w Ninth Ave., two-and-one-half-st'y brick dwell., tin roof; cost, $5,000; owner, Chris. C. Frith, 471 Fourteenth St.

Third St., n s, 98′ w Eighth Ave., 10 three-st'y brick dwells., tin roof; cost, $10,000 each; owner and architect, Wm. Flanagan, 69 Seventh Ave.

Butler St., s s, 445′ e Franklin Ave., 2 two-st'y brick dwells., tin roofs; cost, $4,000 each; owner, Geo. F. Beatty; architect, John J. Petit, 186 Remsen St.

Hancock St., s w cor. Evergreen Ave., three-st'y frame dwell., tin roof; cost, $3,500; owners and builders, Cozine & Gascoine, 1223 Bushwick Ave.; architect, Chas. E. Austin, 1223 Bushwick Ave.

Camden, N. J. — *Morgan St., No.* 685, frame dwell.; owner, Charles Bauman.

Jackson St., above Sixth St., two brick dwells.; owner, H. C. Burrichter, 169 South Sixth St.

Chicago, Ill. — John Duffy, two-st'y dwell., 251 Osgood St.; cost, $3,500.

L. P. Hilliard, two-st'y dwell. and barn, Forest Ave. and Ninety-fourth St.; cost, $6,000.

Mrs. G. L. Carmon, two-st'y dwell., 6437-6439 Howard St.; cost, $6,700.

Mrs. Franklin R. Malcomb, two-st'y dwell., 1222-1224 Wolcott St.; cost, $25,000.

P. J. Ryan, three-st'y dwell., 4020 Grand Boulevard; cost, $7,000.

L. C. Kuhnert, two-st'y dwell. and barn, 5610 Washington Ave.; cost, $9,000.

James H. Shields, 6 two-st'y dwells., Seventy-seventh St. and Carlin Ave.; cost, $10,000.

E. A. Titcomb, two-st'y dwell., 1412 Millard Ave.; cost, $3,500.

Fred W. Stapf, 2 two-st'y dwells., Tripp St. and Courtland Ave.; cost, $6,000.

Samuel Hall, two-st'y dwell. and barn, 1639 West Adams St.; cost, $10,000.

E. R. Davis, 7 two-st'y dwells., Cuyler and Leavitt Sts.; cost, $18,000.

C. T. Northrup, two-st'y dwell., 7201 Webster Ave.; cost, $5,500.

A. Napier, two-st'y dwell., 6038 Justine St.; cost, $3,500.

J. McConnell, 3 two-st'y dwells., 7153-7159 Wright St.; cost, $7,500.

Samuel Simons, 2 two-st'y dwells., 370 Fulton St.; cost, $3,600.

N. P. Cummings, two-st'y dwell., 4958 Forrestville Ave.; cost, $10,000.

F. L. Cook, two cottages, 3014-3022 West Forty-first St.; cost, $3,300.

H. J. Trumbull, two-st'y dwell. and barn, Fifty-sixth and Sheridan Sts.; cost, $12,000.

August Holmberg, two-st'y dwell., Winchester Ave. and West Fortieth St.; cost, $3,000.

F. W. Phillips, 2 three-st'y dwells., 1917-1919 Wrightwood Ave.; cost, $30,000.

J. C. Flint, two-st'y dwell., 7740-7742 Wright St.; cost, $4,300.

Warren McArthur, two-st'y dwell., 4852 Kenwood Ave.; cost, $8,000.

Paul Shorey, two-st'y dwell., 5516 Woodlawn Ave.; cost, $5,000.

N. Howard, two-st'y dwell., 4861 Kimbark Ave.; cost, $10,000.

A. W. Hester, 2 three-st'y dwells., 1915-1917 Diversy Ave.; cost, $22,000.

Barriman Bros., 2 three-st'y dwells., 1911-1913 Diversy Ave.; cost, $25,000.

W. A. Wieboldt, three-st'y dwell. and barn, 1834-1838 Surf St.; cost, $30,000.

Mrs. F. Dodson, 2 three-st'y dwells., 4208-4210 Prairie Ave.; cost, $15,000.

BUILDING INTELLIGENCE.

F. J. Cross, 4 two-st'y dwells., Dickey Ave., near Seventy-seventh St.; cost, $16,000.

H. A. Hatley, two-st'y dwell. and barn, 37 Hawthorne Ave.; cost, $12,000.

Edmund Burke, two-st'y dwell., 183 North Paulina St.; cost, $4,000.

George A. Fuller Co., five-st'y dwell., 164-168 Astor St.; cost, $70,000.

Lester Brown, two-st'y dwell., Greenwood St. and Center Ave.; cost, $3,000.

W. H. Mallory, three-st'y dwell., 4430 Prairie Ave.; cost, $6,500.

S. Wells, two-st'y dwell., Wood and Grove Sts.; cost, $3,000.

C. N. Holden, three-st'y dwell., 1841 Wellington St.; cost, $8,000.

J. Gross, 3 two-st'y dwells. and barn, 1730 Deming Ct.; cost, $10,000.

Frederick Fernandt, two-st'y dwell., 728 Sulzer St.; cost, $5,000.

Rev. D. S. McGuire, two-st'y dwell., Fiftieth and Peoria St.; cost, $3,300.

E. E. Andrews, two-st'y dwell., Robey St., near Sunnyside Ave.; cost, $3,000.

Mrs. Mary C. Brown, 2 two-st'y dwells., 5817-5819 Madison Ave.; cost, $16,000.

C. P. Goss, three-st'y dwell., 4104 Vincennes Ave. cost, $6,500.

Cincinnati, O. — Geo. Rewer, two-and-one-half-st'y brick and stone dwell., Vine St.; cost, $3,500; architects, Rieg & Marty.

Ed. Noonan, two-and-one-half-st'y brick and stone dwell., Knowlton and Chambers Aves.; cost, $3,500; architect, Wm. Stoffregem.

C. Dodsworth, two-and-one-half-st'y brick and stone dwell., Knowlton St.; cost, $2,500; architect, P. Pfeiffer.

H. & S. Pogue, 3 two-and-one-half-st'y brick and stone dwells., Calonn St.; cost, $19,000; architect, W. W. Franklin.

G. & A. Herancourt, three-and-one-half-st'y brick and stone dwell., Harrison Ave.; cost, $3,000; architects, G. & A. Brink.

John H. Murphy, two-and-one-half-st'y brick and stone dwell., Eighth St.; cost, $5,000; architect, E. B. Cassidy.

Geo. Suess, four-and-one-half-st'y brick and stone dwell., Elm St.; cost, $5,000; architects, Rieg & Marty.

Fred Kurtz, two-and-one-half-st'y brick and stone dwell., Glendora St.; cost, $3,000; architect, J. G. Steinkamp.

A. Bauer, two-and-one-half-st'y brick and stone dwell., Cormany St.; cost, $5,000; architect, E. Baude.

Ben Knapp, two-and-one-half-st'y frame dwell., Setore and Vincent Sts.; architect, A. Bast.

Fred Holtgrewe, two-and-one-half-st'y frame dwell., Wilson St.; cost, $2,500; architect, M. Fisher.

Geo. Campbell, 14 one-st'y frame dwells., Ashland Ave.; cost, $6,000; architect, Wm. Yolton.

P. L. Windisch, two-and-one-half-st'y frame dwell.; cost, $5,000; architect, P. Peiffer.

Mrs. E. Griffith, two-and-one-half-st'y frame dwell., Highland Ave.; cost, $3,000; architects, Boffinger & Hopkins.

Mrs. W. Wischer, two-and-one-half-st'y frame dwell., Hawthorne St.; cost, $4,300; architect, E. Baude.

C. A. Hinisch, two-and-one-half-st'y frame dwell., Ashland Ave.; cost, $2,700; architect, J. R. Lindsay.

Geo. Plogstidt, two-and-one-half-st'y frame dwell., Brown St.; cost, $3,200; architects, Rieg & Marty.

Mrs. S. Macbriar, two-and-one-half-st'y frame dwell., Myrtle Ave.; cost, $2,500; architect, W. C. Lawrence.

Theo. Von Holle, two-and-one-half-st'y brick and stone dwell., Harrison Ave.; cost, $4,000; architect, E. Baude.

E. H. Renner, two-and-one-half-st'y brick and stone dwell., Corrie St.; cost, $3,000; architect, J. Reuckert.

Geo. Palmer, three-st'y brick and stone dwell., State Ave.; cost, $4,700; architect, A. J. Bast.

J. Dolling, owner and architect, two-and-one-half-st'y brick and stone dwell., May St.; cost, $3,500.

N. H. Davis, two-and-one-half-st'y brick and stone dwell., Grandin Road; cost, $18,000; architects, Austin & Stickney.

Jos. C. Thombs, four-st'y brick and stone dwell.; Allison St.; cost, $7,000; architects, Rieg & Marty.

J. H. Bosse, two-st'y frame dwell., Klein St.; cost, $3,000; architect, J. Steinkamp.

Clifton Heights, Pa. — *Madison St.*, 2 three-st'y brick dwells.; for H. E. Cooper.

East Orange, N. J.—Dwell., Colonial style; owner, F. L. Fieger; architects, Rose & Stone.

Elizabeth, N. J.— Two-st'y frame dwell.; cost, abt. $5,000; owner, L. K. Hazard; architect, A. L. C. Marsh.

Englewood, N. J. — Dwell.; cost, abt. $12,000; owner, Mr. H. A. Ogden; architect, J. E. Terhune.

Germantown, Pa.— *East Chelton Ave.*, opp. S. Vincents College, Colonial mansion; cost, abt. $18,000; owner, David McMahon; contractor, George Hearst.

Hackensack, N. J.—Dwell.; cost, abt. $6,000; owner, J. Clarendon; architect, J. E. Terhune.

Melrose Highlands, Mass. — Frame dwell., 34 2′ x 39.1′; owner, Grace Kellogg; architects, Lewis & Paine, Boston; contract to be let.

Minneapolis, Minn. — B. W. Smith, three-st'y double brick dwell., 115-117 Hawthorne Ave.; cost, $13,000.

Montreal, Can. — *St. Famille Ste.*, dwell.; owner, Robert McFarlane; architect, A. Gendron, 99 St. James St.

Montreal Junction, dwell.; owner, Carl Warnecke; architect, Robert Findlay, Sun Life Building.

St. Denis St., private dwell.; owner, F. X. St. Charles, 186 St. Denis St.; architect, Gaudias Simard, 1585 St. Catherine St.

St. Denis St., two dwells.; owner, P. G. Martineau, 810 St. Denis St.; architect, Théo. Daoust, 162 St. James St.

Sherbrooke St., private dwell.; owner, H. J. Tellier, Lougue Pointe, Que.; architect, Chas. Chaussé, 107 St. James St.

Drummond St., dwell.; owner, Geo. Graham, 74 Victoria Square; architect, A. C. Hutchison, 181 St. James St.

St. Catherine St., private dwell.; owner, D. W. Ross Cote, St. Antoine, Que.; architect, A. C. Hutchison, 181 St. James St.

Cherrier St., 5 three-st'y dwells.; owner, A. Desrivieres; architects, Perreault & Lesage, 17 Place d'Armes Hill.

St. James St., three-st'y stone building; owner, A. Brunet; architects, Perreault & Lesage, 17 Place d'Armes Hill.

Mountain St., 4 four-st'y dwells.; owner, George Bishop; architect, A. Gendrom, 99 St. James St.

Champlain St., three-st'y dwell.; owner, Louis Lapointe; architect, L. R. Montbriant, 42 St. Andre St.

Sherbrooke St., dwell.; owner, E. E. Rothwell; architect, Charles Chaussé, 107 St. James St.

Church St., two dwells.; owner, Ant. Guenette; architect, J. Alcide Chaussé, 153 Shaw St.

Wood Ave., 5 four-st'y cottages; owner, James Douglas; architect, A. Gendrom, 99 St. James St.

Newtonville, Mass. — Frame cottage; for A. B. Chaflin; architects, Lewis & Paine, Boston.

New York, N. Y. — *Ninety-sixth St.*, n s, 225′ e Columbus Ave., 4 three-st'y brick dwells., tin roofs; cost, $64,000; owner, George H. Harlow, 284 Columbus Ave.; architect, M. V. B. Ferdon, 265 West Thirty-fourth St.

Hudson St., No. 221, two-st'y brick dwell., gravel roof; cost, $3,000; owner, E. G. W. Woerz, 1 East Sixty-third St.; architects, J. & L. Weber, 21 East Twenty-third St.

Southern Boulevard, s s, 80′ 6″ w Bainbridge Ave., three-st'y brick and frame dwell.; cost, $7,000; owner, James Thomas, 88 Seventh Ave.; architect, C. S. Clark, 919 East One Hundred and Seventy-seventh St.

One Hundred and First St., s s, 100′ w Boulevard, 6 three-st'y brick dwells., tin roofs; cost, $96,000; owner, Frank E. Wise, 245 West One Hundred and Fifth St.; architect, G. A. Schellinger, 128 Broadway.

One Hundred and Sixtieth St., n w cor. Jumel Terrace, 4 four-st'y brick dwells., mansard, slate and tin roofs; cost, $82,000; owner, Edward Lewis, 426 West One Hundred and Sixtieth St.; architect, Richard R. Davis, 247 West One Hundred and Twenty-fifth St.

Riverdale Ave., e s, 190′ s South St., 3 one-st'y brick dwells., peak, iron and glass roof; cost, $7,000; owner, Fred Goodridge, Riverdale; architects, Thomas W. Weatheredi & Son, 244 Canal St.

Edgcomb Ave., w s, 425′ s One Hundred and Forty-fifth St., 3 three-st'y brick dwells., tin roofs; cost, $28,000; owner, Fred Grasmuck, 231 Edgcomb Ave.; architect, Will A. O'Hea, 2564 Eighth Ave.

St. Nicholas Pl., No. 18, two-st'y brick dwell., tin roof; cost, $25,000; owner, Fred Schuck, 451 East Eighty-fifth St; architect, Frank Wennemer, 204 East Eighty-sixth St.

One Hundred and Fifty-fourth St., s s, 200′ w St. Nicholas Ave., three-st'y brick dwell., tin roof; cost, $30,000; owner, Elizabeth Johnston, 719 St. Nicholas Ave.; architects, A. B. Ogden & Son, 1031 Madison Ave.

One Hundred and Nineteenth St., n s, 100′ e Manhattan Ave., 8 three-st'y brick dwells., tin roofs; cost, $120,000; owner, George H. Johnston, 719 St. Nicholas Ave.; architects, A. B. Ogden & Son, 1031 Madison Ave.

One Hundred and Fifty-fourth St., s s, 200′ w St. Nicholas Ave., three-st'y brick dwell., tin roof; cost, $30,000; owner, Elizabeth Johnston, 719 St. Nicholas Ave.; architects, A. B. Ogden & Son, 1031 Madison Ave.

Ninety-first St., s s, 150′ e Riverside Drive, four-st'y brick dwell., tin roof; cost, $20,000; owner, Charles De Hart Brower, 161 West Eighty-first St.; architect, Charles P. H. Gilbert, 18 Broadway.

Eighty-ninth St., s s, 300′ e Columbus Ave., 5 four-st'y brick dwells., tin roofs; cost, $100,000; owner, Patrick Farley, 1990 Madison Ave.; architects, Thom & Wilson, 1267 Broadway.

Sixty-ninth St., s s, 250′ w Central Park West, 6 four-st'y brick dwells., tin roofs; cost, $150,000; owners, Geo. C. Edgars Sons, 74 West Ninety-fourth St.; architect, G. A. Schellinger, 128 Broadway.

One Hundred and Twentieth St., s s, 85′ e Lenox Ave., 5 three-st'y brick dwells., tin roofs; cost, $80,000; owner, James Parlen, 17 West One Hundred and Twenty-second St.; architects, Cleverdon & Putzell, 13 Astor Pl.

One Hundred and Fourteenth St., s s, 325′ e Lenox Ave., 7 three-st'y brick dwells. tin roofs; cost, $56,000; owner, Ed Franke, 46 West One Hundred and Seventeenth St.; architect, Wm. B. Franke, 35 Mt. Morris Ave.

One Hundred and Fifteenth St., n s, 375′ and 400′ w Boulevard, 2 four-st'y brick dwells., tin roofs; cost, $30,000; owner, Francis M. Burdick, 169 West Seventy-ninth St.; architect, Henry O. Chapman, 132 West Twenty-third St.

Edgecombe Ave., n w cor. One Hundred and Forty-fifth St., 8 three-st'y brick and stone dwells.; cost, $70,000; owner, A. E. Hemmel; architect, Albert E. Davis.

Ninety-ninth St., n s, near West End Ave., 8 three-st'y brick, stone and terra-cotta dwells.; owner, A. C. Squier; architect, E. C. Smith.

One Hundred and Fourth St., n s, 200′ w West End Ave., 5 three-st'y brick and stone dwells.; owners, Weicker & Fisher.

Hamilton Pl., s w cor. One Hundred and Fortieth St., 12 three-st'y brick dwells., tin roof; cost, $192,000; owner, Thomas J. Robinson, 2064 Seventh Ave.; architect, John C. Burne, 101 West Forty-second St.

Brook Ave., s w cor. One Hundred and Seventieth St., three-st'y brick and frame dwell., tin roof; cost, $4,000; owner, Herbert A. Shipman, 100 East Seventeenth St.; architect, Ferd J. Miller, 727 East One Hundred and Sixty-third St.

One Hundred and Thirty-fourth St., s s, 375′ e Trinity Ave., 13 three-st'y brick and frame dwells., tin roofs; cost, $78,000; owner, John Cotter, One Hundred and Thirty-eighth St. and Willis Ave.; architects, C. A. Nillner, One Hundred and Thirty-eighth St. and Willis Ave.

Ninety-third St., s s, 83′ 11″ w Madison Ave., 4 three-st'y brick dwells., tin roofs; cost, $100,000; owner, Walter Reid, 1669 Second Ave.; architect, Walter Reid, Jr., 1472 Third Ave.

Seventieth St., n s, 100′e West End Ave., 4 three-st'y brick dwells., tin roofs; cost, $64,000; owner, Annette Shannan, 340 West Fifty-first St.; architect, John C. Burne, 101 West Forty-second St.

Eagle Ave., e s, 96′ n Westchester Ave., 6 three-st'y brick dwells., tin roofs; cost, $30,000; owner, Frederick Rohrs, 302 East One Hundred and Twenty-sixth St.; architect, James Barrett, 244 East One Hundred and Twelfth St.

Tinton Ave., e s, 125′ n Kelly St., three-st'y brick dwell., tin roof; cost, $15,000; owner, St. Andrew's Roman Catholic Church, 763 Forest Ave; architect, C. Baxter, 2580 Third Ave.

Edgcomb Ave., w s, 19′ 5″ n One Hundred and Forty-fifth St., 7 three-st'y brick dwells., peak slate, tile and tin roof; cost, $70,000; owner, A. E. Hemmel, 103 West Ninety-eighth St.; architect, A. E. Davis, 2533 Third Ave.

Edgcomb Ave., n w cor. One Hundred and Forty-fifth St., three-st'y brick dwell., tin roof; cost, $12,000; owner, A. E. Hemmel, 103 West Ninety-eighth St.; architect, A. E. Davis, 2533 Third Ave.

Ninety-sixth St., n s, 225′ e Columbus Ave., 4 three-st'y brick dwells., tin roofs; cost, $64,000; owner, George J. Harlow, 284 Columbus Ave.; architect, M. V. B. Ferdon, 265 West Thirty-fourth St.

Tremont Ave., s s, 70′ e Franklin Ave., three-st'y brick and frame dwell., peak shingle roof; cost, $4,500; owner, Frank Ramsteck, Vanderbilt Ave. and One Hundred and Seventy-seventh St.; architect, C. S. Clark, 719 East One Hundred and Seventy-seventh St.

One Hundred and Twelfth St., n s, 175′ e Lenox Ave., 4 three-st'y brownstone dwells.; cost, $60,000; owner, Thos. W. Sharkey; architects, Neville & Bagge.

Philadelphia, Pa.— *Chestnut St.*, s w cor. Forty-second St., 8 three-st'y brick and stone dwells.; builder, James Bradley, 40 West Thirty-eighth St.

Ridge Ave., e s, s Jamestown St., three-st'y brick dwell.; builder, Robert Boone, 4108 Manayunk Ave.

Westmoreland St., n e cor. Sixteenth St., 4 three-st'y brick dwells.; builder, W. R. Brown, 1702 North Thirteenth St.

Rosehill St., w s, s Clearfield St., 16 two-st'y brick dwells.; owner, Jacob Marsch, 339 East Indiana Ave.

Franklin St., s e cor. Cambria St., two-st'y brick dwell.; owner, Harry G. Schultz, 2633 Germantown Ave.

Cambria St., s s, w Seventh St., 7 two-st'y brick dwells.; owner, Harry G. Schultz, 2633 Germantown Ave.

Seventh St., s w cor. Cambria St., two-st'y brick dwell.; owner, Harry G. Schultz, 2633 Germantown Ave.

Mulberry St., w s, s Harrison St., 2 two-st'y brick dwells.; builder, W. W. Worrell, 2014 Orthodox St.

Thirty-fifth St., w s, n Wharton St., 12 two-st'y brick dwells.; owner and builder, S. H. Morrison, s w cor. Pearl and Second Sts.

Harmony St., e s, n Wharton St., 12 two-st'y brick dwells.; owner and builder, S. H. Morrison, s w cor. Pearl and Second Sts.

Albert St., No. 1210, three-st'y brick dwell.; builder, Amos Supplee, 926 South Twelfth St.

Pearl St., Nos. 1229-1231, 2 three-st'y brick dwells.; builder, E. J. Steinmetz, 721 Noble St.

Forty-second St., s w cor. Chestnut St., 8 three-st'y brick dwells.; builder, James Bradley, 40 North Thirty-eighth St.

Eighty-sixth St., n e cor. R. R. R., three-st'y brick dwell.; builder, George B. Heath, Ewing Ave., near Eighty-eighth St.

Brewster Ave., e s, s Eighty-fourth St., three-st'y brick dwell.; builder, John Langenhoff, 2043 South Ninth St.

Belmont Ave., No. 1112, three-st'y brick dwell.; builder, C. C. Bateson, 4500 Wyalusing Ave.

Toland St., s w cor. P. & R. R. R., three-st'y brick dwell.; builder, Charles S. Kates, Seventy-ninth St. and Brewster Ave.

Tabor St., n s, e Front St., three-st'y brick dwell.; builder, Lemuel Altemus, Olney.

Somerton Pike, s e, near Byberry St., two-st'y dwell.; builder, Henry Stevens, Somerton.

D St., e s, n Indiana Ave., 7 two-st'y brick dwells.; owner, Jacob Marsch, 336 Indiana Ave.

Germantown Ave., e s, n Somerset St., three-st'y dwell.; owner, Jacob Marsch, 339 Indiana Ave.

Bridge St., e s, s Jackson St., two-st'y brick dwell.; builders, Koliver Bros., 2737 Ash St.

Penn St., w s, n Lefevre St., two brick dwells.; builders, Koliver Bros., 2737 Ash St.

Clinton St., w s, n Clarkson St., two-st'y brick dwell.; builder, H. W. Hoffman, 3036 North Seventeenth St.

Chelten Ave., n w s, s w Morris St., 2 three-st'y brick dwells.; owner, D. P. Brunner, 4820 Morris St.

Penn St., w s, n Wakeling Ave., 2 three-st'y brick dwells.; builder, J. S. Swope, 4629 Franklin Ave.

Harrison St., n s, e Frankford Ave., three-st'y brick dwell.; owner, Charles W. Castor, 4355 Frankford Ave.

Ash St., n s, w Thompson St., 4 two-st'y brick dwells.; builder, Frank Brenninger, 4545 Salmon St.

Longshore St., w s, n Marsden St., 5 two-st'y brick dwells.; builder, Thomas Waters, Frankford Ave. and Stiffil St.

Washington St., w s, s Torresdale Ave., 2 three-st'y brick dwells.; builder, Thomas Waters, Frankford Ave. and Stiffil St.

Tacony St., s s, e Margaretta St., two-st'y brick dwell.; builder, Thomas Waters, Frankford Ave. and Stiffil St.

Orleans St., w s, s Frankford Ave., 10 two-st'y brick dwells.; owner, Benjamin Wetzel, 3047 D St.

Twenty-eighth St., s e cor. Thompson St., three-st'y brick dwell.; builder, Philip Haibach, s e cor. Twenty-sixth and Thompson Sts.

Leida St., n s, w Girard Ave., 5 three-st'y brick dwells.; builder, E. R. Skaggs, 4142 Parrish St.

Forty-second St., e s, n Springfield Ave., 4 three-st'y brick dwells.; owner, W. S. Himball, 4101 Chestnut St.

Seigel St., s s, w Nineteenth St., two-st'y brick dwell.; builder, J. W. Bird, 2231 Watkins St.

Mulberry St., w s, s Orthodox St., 5 two-st'y brick dwells.; builder, Alfred Gray, 4733 Mulberry St.

Green St., n s, w Paul St., 2 two-st'y brick dwells.; builder, R. C. Winnals, 1628 Margaretta St.

Leiper St., e s, n Arrott St., 2 three-st'y brick dwells.; builder, R. C. Winnals, 1628 Margaretta St.

Wright St., e s, n Tioga St., 14 two-st'y brick dwells.; owner, John Whelan, 3510 North Second St.

Cook St., n s, w Cumberland St., 9 two-st'y brick dwells.; builder, W. W. Stehr, 2330 Adams St.

Sixteenth St., e s, s Huntingdon St., 10 two-st'y and 12 three-st'y brick dwells.; owner, C. Scheafer, 2345 North Seventeenth St.

Front St., e s, s Susquehanna Ave., three-st'y brick dwell.; builders, W. Steele & Son, 506 Walnut St.

Howard St., No. 1757, three-st'y brick dwell.; builder, F. B. Franks, 2215 Emerald St.

Twenty-second St., e s, s Columbia Ave., 4 three-st'y brick dwells.; builders, Pemberton & Co., 611 Drexel Building.

Twenty-eighth St., e s, n Parrish St., 4 two-st'y brick dwells.; builder, Andrew Moore, 2310 Spring Garden St.

Columbia Ave., n s, e Twentieth St., 2 three-st'y brick dwells.; owner, M. Carey Lea, 1916 Columbia Ave.

Belmont St., e s, n Lancaster Ave., three-st'y brick dwell.; builder, Thomas H. Burrows, 5127 Kershaw Ave.

Fifty-fourth St., w s, s Lancaster Ave., three-st'y brick dwells.; builders, J. S. Connell & Son, 1919 Woodstock St.

Glenwood Ave., e s, s Island Road, 2 two-st'y brick dwells.; builder, E. M. Fletcher, Seventy-third St. and Gray's Ferry Ave.

Forty-seventh St., s e cor. Springfield Ave., 6 three-st'y brick dwells.; owners, C. W. Budd & Bro., 1821 Spring Garden St.

Lancaster Ave., n e cor. Spring Garden St., 4 three-st'y brick dwells.; builder, F. L. Michaelson, 4019 Lancaster Ave.

Spring Garden St., n s, w Twenty-fourth St., 2 two-st'y brick dwells.; owner, W. T. Gabell, 2032 North Seventeenth St.

Germantown Ave., No. 4702, three-st'y brick dwell.; builders, Aspen & Tevin, 2048 Newcomb St.

Tabor St., n s, w Bickley St., three-st'y brick dwell.; builder, L. Altemus, Olney.

Sixteenth St., e s, s Tioga St., two-st'y brick dwell.; builder, George B. Tull, 2817 North Twelfth St.

Seybert St., s s, w Sixteenth St., 4 two-st'y brick dwells.; builder, John G. Ruff, 619 Cherry St.

Locust St., No. 2024, four-st'y brick dwell.; builders, Benj. Ketchum & Son, 1029 Brown St.

Eighteenth St., e s, n Snyder Ave., 10 two-st'y brick dwells.; owner, J. J. Donavan, 824 Perkiomen St.

Kimball St., s s, w Twenty-fourth St., 24 two-st'y

brick dwells.; owners, R. & A. Wilson, 2018 Moore St.

Snyder Ave., n s, e Juniper St., 9 two-st'y brick dwells.; builder, Andrew Mowbray, 1226 South Fifteenth St.

Thirteenth St., w s, n Snyder Ave., 4 three-st'y brick dwells.; builder, Andrew Mowbray, 1226 South Fifteenth St.

Locust St., n s, e Seventeenth St., three-st'y brick dwell.; builders, A. H. Williams's Sons, 402 Tenor Pl.

Hall St., e s, n Columbia Ave., two-st'y brick dwell.; builder, Paul Bertrand, 1031 Lawrence St.

Powelton St., s s, e Forty-first St., 5 three-st'y brick dwells.; builders, C. F. Wells & Son, 260 South Eighth St.

Wakeling St., w s, n Willow St., two-st'y brick dwells.; builders, Wilson, Milonor & Co., Penn and Allen Sts.

Ridge St., e s, s Huntingdon St., 2 two-st'y brick dwells.; owner, W. F. Albrecht, Ridge Ave. and Diamond St.

Hockley St., n and s s, w Vienna St., 16 two-st'y brick dwells.; owners, Halzheiser & Richardson, Otis St. Wharf.

Nineteenth St., n w cor. Vine St., three-st'y brick dwell.; owner, John Peart, 2042 Vine St.

Carlisle St., n w cor. Oxford St., four-st'y brick dwell.; owner, H. G. Freuman, 1402 Oxford St.

Merion Ave., n s, n Fifty-fourth St., 2 two-st'y dwells.; builders, Hunter & Nock, Fifty-fourth St. and Lancaster Ave.

Fifteenth St., w s, n Butler St., 3 three-st'y brick dwells.; owner, Wesley De Frehr, 3852 Germantown Ave.

Medary St., n s, e Weiss St., two-st'y brick dwell.; builder, Albert Hamilton, Chelten Ave. and Weiss Sts.

Haworth St., s s, w Cedar St., two-st'y brick dwell.; builders, Markley & Beran, 4260 Penn St.

Blair St., w s, cor. Roxbury Ave., 2 three-st'y dwells.; owner, Walter Rowland, 469 Martin St.

Tioga St., w s, n Fifteenth St., 2 three-st'y brick dwells.; builder, Benj. Walker, 3953 Germantown Ave.

Mitchell St., w s, n Riley St., 2 two-st'y dwells.; builder, Harry Wanklin, 446 Green Lane.

Canby St., s s, w Twelfth St., 3 two-st'y brick dwells.; builder, Wm. Murphy, 723 Walnut St.

Fiftieth St., s w s, bet. Adelaide St. and Kingsessing Ave., 16 two-st'y brick dwells.; owner, W. S. P. Sheilds, 735 Walnut St.

Seventy-second St., s s, w Hooper St., two-st'y brick dwell.; builder, Geo. Kyle, Seventy-fifth St. and Avenue F.

Frankford Ave., No. 4435, two-st'y brick dwell.; builder, Frank G. English, 1628 North Seventh St.

Tulip St., n w s, n e Unruh St., 2 two-st'y brick dwells.; builder, Thomas Brush, 4038 Mulberry St.

Fifth St., w s, s Clearfield St., 4 two-st'y brick dwells.; owner, Geo. Mander, Oak Lane Station.

William St., s e cor. Almond St., two-st'y brick dwell.; owner, Patrick O'Connor, 2612 William St.

Twenty-ninth St., e s, n Stiles St., 2 two-st'y brick dwells.; owner, W. T. B. Roberts, Twentieth St., n w cor. Dauphin St.

Wyalusing Ave., w s, w Thirty-ninth St., 40 two-st'y brick dwells.; owner, Jno. H. Hudson, 1424 Columbia Ave.

Penn St., w s, n Orthodox St., three-st'y brick dwell.; builder, Benj. Taylor, 4520 Paul St.

Seventh St., e s, n Somerset St., 17 two-st'y brick dwells.; owner, E. Stewart Sons, American St., s e cor. Diamond St.

Vienna St., s w s, bet. Moyer and Girard Sts., 4 two-st'y brick dwells.; builder, James McCauley & Sons, 1328 East Montgomery Ave.

Oakford St., s s, e Twenty-seventh St., nine brick dwells.; owner, Alfred G. Clay, 522 Walnut St.

Rittenhouse St., n e cor. Twenty-first St., three-st'y brick dwell.; builder, Porter Thompson, 2037 Filbert St.

Oxford St., w s, w Fifty-fifth St., 19 two-st'y brick dwells.; builder, Geo. W. Sherman, 3050 Clifford St.

Powelton Ave., s s, w Forty-second St., 2 two-st'y brick dwells.; owner, Jas. W. Saunders & Son, 230 North Twenty-second St.

Thirty-fourth St., n w cor. Spring Garden St., 9 three-st'y brick dwells.; owner, W. T. Gabell, 2032 North Seventeenth St.

Leverington St., n w s, n Selig St., 2 three-st'y brick dwells.; builder, Sylvester Yardly, 539 East Jefferson St., Rox.

Manayunk Ave., n e s, n w Adams St., 5 two-st'y brick dwells.; owner, Howard R. Yocum, 410 Lyceum Ave.

Fairhill St., e s, n Somerset St., 3 two-st'y brick dwells.; builder, R. B. Crowan, 2335 North Eighth St.

Sixteenth St., w s, n Cumberland St., 23 two-st'y brick dwells.; owner, John Loughran, 2238 North Broad St.

Parrish St., No. 1015, three-st'y brick dwell.; builder, F. N. Forsyth, 2129 Jefferson St.

Darien St., w s, s Susquehanna Ave., 4 two-st'y brick dwells., also three-st'y brick dwell.; owner, Samuel Shoemaker, 1931 Park Ave.

Sixteenth St., w s, s McKean Ave., brick dwell.; owner, M. Riley, 1932 South Sixteenth St.

Twenty-fourth St., w s, s Carpenter St., 5 two-st'y brick dwells.; owners, R. & A. Wilson, 2010 Moore St.

Penn St., e s, s Foulkrod St., 2 three-st'y brick dwells.; builder, W. S. Roberts, 4915 Penn St.

Division St., s e cor. Salmon St., 4 two-st'y brick dwells.; builder, C. Judge, 3014 Richmond St.

Eighteenth St., e s, n Moore St., 7 three-st'y brick dwells.; owner, Timothy Gallagher, 1907 Dickinson St.

Fiftieth St., w s, s Greenway Ave., 6 two-st'y brick dwells.; owner and builder, W. S. P. Shields, 735 Walnut St.

Chatham St., w s, bet. Clearfield and Ann Sts.; two-st'y brick dwell.; builder, Eugene Schmid, 173, Mascher St.

Thomas St., s w cor. Bridge St., two-st'y brick dwell.; builder, Amos W. Linn, 4767 Garden St.

Forty-fifth St., e s, n Parrish St., 6 two-st'y brick and stone dwells.; owners and builders, Weeks & Michaelson, 4019 Lancaster Ave.

Mica St., w s, n Parrish St., 6 two-st'y brick and stone dwells.; owners and builders, Weeks & Michaelson, 4019 Lancaster Ave.

Jannette St., s s, e Retta Ave., 2 three-st'y brick dwells.; builder, A. A. Harmer, Freedland Ave., Wissahickon.

Green Lane, e s, n Wood St., 2 three-st'y brick dwells.; builder, Wm. Eddleman, 480 Green Lane.

Cresson St., n s, w Spencer St., two-st'y brick dwell.; builder, Joseph Woffindin, 35 Scotts Lane.

Providence, R. I. — *Fountain St.*, n s, three-st'y frame dwell.; cost, $5,500; owner, Corporation Sts. Peter and Paul; architects, Wm. R. Walker & Son; builder, Thos. Barry.

Waterman St, s s, near Gano St., one-and-one-half-st'y frame dwell.; cost, $3,100; owner, Dr. R. F. Eaton; architect, H. K. Hilton; builders, Hathaway & Douglass.

Rockville, Conn. — Frame dwell., 70′ x 81′; owner, George Sykes; contract to be let; architects, Hartwell & Richardson, Boston.

Somerville, Mass. — *Beacon St.*, cor. Morgan St., frame dwell., 27′ x 40′; owner, John P. Tarbell, trustee; builder, J. E. Wisdom.

Heath St., near Bond St., frame dwell., 23′ x 28′; owner, John Cahalan; builder, J. K. Ricker.

Caldwell Court, near Washington St., three-st'y frame dwell., flat roof, 22′ x 40′; owner, Eugene Ford; builder, John McGirr.

Clarendon Ave., near Newbury St., nine frame dwells., 22′ x 26′; owner and builder, H. T. Townsend.

Dell St., two frame dwells., 21′ x 28′; owner, N. H. Reed; builders, Hudson & Lewis.

Joseph St., three-st'y frame dwell., flat roof, 22′ x 43′; owner and builder, J. W. Connor.

Joseph St., frame dwell., 22′ x 33′; owner and builder, J. W. Connor.

Adrian St., frame dwell., 22′ x 40′; owner and builder, J. W. Connor.

Sycamore St., near Medford St., frame dwell., 28′ x 54.6′; owner, Charles E. Smith; builder, A. M. Godfrey.

St. Louis, Mo. — Two-st'y brick dwell.; cost, $4,000; owner, Mrs. E. E. Archer; contractor, M. F. Garey.

Two-st'y brick dwell.; cost, $3,800; owner, Wm. Elliot; contractor, J. H. Dunlap.

Two-st'y brick dwell.; cost, $3,700; owner, D. Branier; contractor, Thomas Hall.

Two-st'y brick dwell.; cost, $3,000; owner, Mrs. M. Devlin; contractor, T. F. Marley.

Three-st'y brick dwell.; cost, $15,000; owners and contractors, Cooper R. E. Co.

Two-st'y brick dwell.; cost, $4,500; owner and contractor, Wm. Kennedy.

Three adj. two-st'y brick dwells.; cost, $9,000; owner, Jno. Lavin; contractor, M. Canady.

Two dwells.; cost, $7,000; owner, P. Nolan; contractor, M. Canady.

Two-st'y brick dwell.; cost, $3,000 owner, E. R. Robards; contractors, Sprague & Ferris.

Tyngsboro, Mass.—Frame dwell.; owner, Frederick Blanchard; contract to be let; architects, Hartwell & Richardson, Boston.

Wilmington, Del. — *Van Buren St.*, eight brick dwells.; builder, A. L. Johnson.

Worcester, Mass.—*Laurel St.*, one-st'y frame dwell.; owner, Joseph Bennett; day work.

Southbridge St., one-and-one-half-st'y frame dwell.; owner and contractor, P. H. Larkin.

Vernon St., two-st'y frame dwell.; owners, John Engstrom and Chas. Ullstrom; contractor, L. M. Peterson.

Eastern Ave., three-st'y frame dwell.; owners, Eric W. Bostron and Chas. A. Bostron; contractor, L. M. Peterson.

East Kendall St., three-st'y frame dwell.; owner, Yon A. Wesman; contractor, L. M. Peterson.

Blaine St., one-and-one-half-st'y frame dwell.; owner, Wm. Shore; architect, W. H. Harvey; contractor, J. A. McDermott.

Glen St., three-st'y frame dwell.; owner, Charles Jamson; contractors, Nilson & Silven.

South Stowel St., two-st'y frame dwell.; owner, Mrs. L. Carpenter; day work.

Woodland St., two-st'y private dwell.; owner, J. F. Warren; contractors, J. I. Elliot & Co.; architect, J. B. Woodworth.

Gardner St., three-st'y frame dwell.; owners and contractors, E. H. & L. W. Rice.

Fairmount Ave., three-st'y frame dwell.; owner, Angele Anger; contractors, Belisle & Maynard.

Woodbine St., two-and-one-half-st'y frame dwell.; owners, J. D. Cummings and Geo. L. Morris; contractor, W. R. Thompson; architects, Earle & Fisher.

Belmont St., three-st'y frame dwell.; owner, Godfrey Oslin; contractors, Nilson & Silven.

Upsala St., one-and-one-half-st'y frame dwell.; owner, P. O. Lindstrom; contractors, Nilson & Silven.

Malvern Road, one-and-one-half-st'y frame dwell.; owner, J. S. Perry; contractor, Wm. O. Burns.

Hollywood St., two-st'y frame dwell.; owner, S. A. Gates; architect, J. B. Woodworth.

Mayfield St., two-st'y frame dwell.; owner and contractor, Geo. Pierce.

Mason St., 2 two-st'y frame dwells.; owner, J. Milnes; contractor, C. A. Stone.

Milton St., three-st'y frame dwell.; owner, P. Power; contractor, Wm. Power.

OFFICE-BUILDINGS.

Boston, Mass. — *School St., Chapman Pl. and Province St.*, Ward 10, seven-st'y brick and stone offices, flat roof, 72′ x 102′; owner, J. B. Thomas; builders, Sampson & Clark.

Washington St., Water St., Devonshire St. and Spring Lane, Ward 10, seven-st'y brick and stone offices, flat roof, 31′ x 101′; owner, T. H. Carter, *et als.*; builders, Woodbury & Leighton.

Lowell, Mass.—Frame office-building, for Atherton Machine Company; architects, Hartwell & Richardson, Boston.

New York, N. Y. — *South William St., Nos.* 33-37, eight-st'y brick office-building, concrete roof; cost, $80,000; owners, Lyons & Stedman, 67 East One Hundred and Twenty-seventh St.; architect, Julius Munkowitz, 247 West One Hundred and Twenty-fifth St.

First Ave. and Twenty-eighth St., office-building, stable and sheds for the American Lumber Co.; architects, Constable Bros.

Philadelphia, Pa. — *Thompson St.*, e s, s East York St., three-st'y brick office-building; builder, Wm. C. Haddock, 2219 East York St.

South Penn Square, No. 1414, five-st'y brick office-building; builder, F. J. Amweg, 42 and 43 Hale Building.

Walnut St., n s, w Eleventh St., five-st'y brick office-building; builders, Doyle & Doak, 1511 Moravian St.

Swanson St., e s, n Washington Ave., two-st'y brick office-building; builders, Armstrong & Printzinghoff, 136 South Fourth St.

Columbia Ave., e cor. Woodstock St., one-st'y brick office-building; builder, S. B. McDowell, 2144 North Twentieth St.

Germantown Ave., s w s, s School Lane, one-st'y brick office-building; owner, Rev. Wm. Ashmead Schaeffer.

Market St., n s, w Seventeenth St., three-st'y brick office-building; owner, Penn. Railroad Co., Broad St. station.

Twenty-fourth St., e s, n Harold St., office, shop and stable; owner, James L. Stevenson, Ridge Ave. and Diamond St.

SCHOOL-HOUSES.

Audenried, Carbon Co., Pa.—School-house will be built here.

Boston, Mass.—*E St., No.* 201, near West Eighth St., Ward 15, three-st'y brick parochial school, mansard roof, 76.6′ x 104′; owner, J. J. Williams; builders, Holmes Bros.

Detroit, Mich.—A. G. Hollands & Son, brick school-house, 1422 Twenty-seventh St.; cost, $30,000.

SS. Peter and Paul's School, Cass Ave., for Bishop Foley; cost, $55,000.

F. B. Lorkavski, brick school-house and hall, 863 St. Aubine Ave.; cost, $40,000.

Florence, S. C.—Plans have been prepared for a 12-room school-building, to cost about $10,000.

Fort Smith, Ark.—School-building, to cost about $10,000, will be built.

Houston, Texas.—The city authorities will build four school-buildings, at an aggregate cost of about $55,000.

Montreal, Can.—*Laval Ave.*, four-st'y school-house; owners, Commissioners of St. Jean Baptist's Schools; architect, Casimir St. Jean, 180 St. James St.

Philadelphia, Pa. — *School Lane*, n w s, w Green Lane, three-st'y boarding-school; owner, W. A. Schaeffer, Main St., s School Lane.

Thirteenth St., n w cor. Spring Garden St., four-st'y brick school-house; builders, Johnston & Byrnes, 1217 Filbert St.

Tonawanda, N. Y.—*Delaware, Harriet, Morgan and Wheeler Sts.*, 2 two-st'y brick and stone school-houses; cost, $30,000; architect, W. H. Archer, 13 West Huron St., Buffalo, N. Y.

STABLES.

Boston, Mass. — *Millett St., rear*, near Talbot Ave., Ward 24, frame stable, 18′ x 20′; owner, J. J. Hancock; builders, Kennedy & Burns.

Moultrie St., rear, near Seaborn St., Ward 24, frame stable, 29′ x 29′; owner, C. H. Ord; builder, J. F. Haddock.

Boylston Ave., near Green St., Ward 23, frame stable hip roof, 41.6′ x 53′; owner, P. McDermott; builder, J. F. Sullivan.

Brewer St., opp. Thomas Park, Ward 23, one-st'y frame stable, 33′ x 36.6′; owner, W. E. Brigham; builder, A. A. Ayers.

Chestnut Ave., rear No. 305, Ward 23, one-st'y frame stable, 19′ x 20′; owner, Ellis Peterson; builder, J. C. Betts.

Brooklyn, N. Y. — *De Kalb Ave.*, s s, 55′ w Lewis Ave., three-st'y brick stable and workshop, tin roof; cost, $22,000; owner, N. Y. Condensed Milk Co., 71 Hudson St., New York City; architect, M. V. B. Ferdon, 265 West Thirty-fourth St., New York City; builder, George J. Harlon, 284 Columbus Ave., New York City.

Rockwell Pl., w s, 150′ s De Kalb Ave., three-st'y brick stable, felt and gravel roof; cost, $8,000; owner, J. Wear, Rockwell Pl.; architects, I. D. Reynolds & Son, 363 Fulton St.

Clermont Ave., Nos. 483 and 485, three and two-st'y brick stable, gravel and tin roof; cost, $7,000; owner, H. C. Piercy, 207 Thompson St., New York City; architect, Geo. Lowden, 471 Clermont Ave.

Chicago, Ill. — Chicago American Horse Exchange, four-st'y barn, 1601-1635 Dearborn St.; cost, $160,000.

Weaver Getz & Co., two st'y barn, 4008-4010 Atlantic St.; cost, $3,000.

Gen. Joseph Stockton, two-st'y barn, 101 De Koven St.; cost, $30,000.

H. Kuppenheimer, two-st'y barn, 3305 Michigan Ave.; cost, $3,000.

W. H. Moore, two-st'y barn, 2913-2915 Wabash Ave.; cost, $10,000.

New York, N. Y. — *Eightieth St.*, n s, 348′ e Avenue A, three-st'y brick stable, tin roof; cost, $15,000; owner, Wm. F. Cunningham, 338 East Eighty-fourth St.; architect, John C. Burne, 101 West Forty-second St.

West Forty-third St., No. 552, five-st'y brick stable, tin roof; cost, $16,000; owner, John McKelvey, 454 West Forty-ninth St.; architect, James W. Cole, 403 West Fifty-first St.

East Fifty-second St., No. 206, two-st'y brick stable, tin roof; cost, $7,000; owner, James T. Woodward, 247 Fifth Ave.; architect, H. M. Esterly, Inwood.

Jane St., Nos. 85-87, two-st'y brick stable, tin roof; cost, $18,000; owner, R. Fulton Cutting; architect, Jas. M. Macgregor & Son, 19 Liberty St.

West Forty-ninth St., Nos. 553-555, four-st'y brick stable, tin roof; cost, $8,000; owner, August Hermann, 420 West Fifty-first St.; architect, Henry Davidson, 130 West Twenty-third St.

East Fifty-third St., No. 403, six-st'y brick stable, tin roof; cost, $10,000; owner, Nathan Levy, 403 East Fifty-third St.; architects, Horenburger & Straub, 122 Bowery.

West One Hundred and Fortieth St., four-st'y brick stable, tin roof; cost, $45,000; owner, Carrie C. Magee, 506 West One Hundred and Forty-third St.; architects, French, Dixon & De Saldern, Broadway and Fifty-seventh St.

Philadelphia, Pa. — *Brewster Ave.*, bet. Eighty-fourth and Eighty-fifth Sts., one-st'y brick stable; builder, John Langenhoff, 2043 South Ninth St.

South Seneca St., e s, two-st'y stable; builder, Geo. R. Achison, 734 Holly St.

Fox St., s s, w Memphis St., two-st'y brick stable; builder, Thomas Noble, 1819 Tulip St.

Woodland Ave., No. 7236, one-st'y brick stable; builders, Berlein Bros., Seventy-second St. and Kingsessing Ave.

Grays Ferry Ave., n e s, n Woodland Ave., one-st'y brick stable; builder, W. E. Duncan, Forty-ninth St., bel. Woodland Ave.

Norwood St., e s, s Sunset Ave., two-st'y stable; builder, Geo. S. Roth, East Union Ave.

York Road and Thorpe Lane, brick stable; owner, Chas. Tolle, York Road and Thorpe Lane.

North Eighth St., No. 1422, two-st'y brick stable; owner, J. Little, n w cor. Sixteenth and Master Sts.

Letterly St., s s, e Coral St., two-st'y brick stable; builders, Fisher & Hayes, 2621 North Eleventh St.

Mt. Pleasant Ave., e s, e Emlin St., two-st'y brick

stable; builder, Jacob Wentzelberger, 1220 Filbert St.

Fox St., s s, w Memphis St., two-st'y brick stable; builder, J. J. Husband, 135 East Lehigh Ave.

Cuyler St., No. 1939, two-st'y brick stable; builder, W. L. Atkinson, 2214 Wallace St.

Belgrade St., e s, n Freemont St., two-st'y brick stable; builder, Thomas Noble, 1819 Tulip St.

Somerton Pike, s e, near Byberry St., two-st'y brick stable; builder, Henry Stevenson, Somerton.

Seventy-first Ave., n s e cor., two-st'y brick stable; owner, W. G. Serrill, Fifteenth St. and Lehigh Ave.

Ridge Ave., s w s, s e Fairthorne St., two-st'y brick stable; builder, Sylvester Yardly, 539 East Jefferson St., Rox.

Hoffman St., n s, w Front St., one-st'y brick stable; builder, James J. Murphy, 1912 South Front St.

Washington Ave., n s, e Morton St., two-st'y brick stable; builder, Chas. Trout, 5265 Adams St.

North Fifth St., No. 3013, two-st'y brick stable; builder, Geo. R. Monteith, 3029 North Fifth St.

Worcester, Mass.— *Wall St.*, one-st'y frame stable; owner, W. E. Coffey; day work.

STORES.

Boston, Mass. — *Lincoln St.*, cor. Beach St., Ward 10, six-st'y brick store, flat roof, 63′ x 85′; owner, A. H. Ellis; builders, Whidden & Co.

City Square, Nos. 16, 17 and 18, cor. Park St., Ward 5, five-st'y brick store and hall, flat roof, 51′ x 120′; owner, M. Roughan; builders, Donovan & Brock.

Washington St., Nos. 590-594, Ward 10, six-st'y brick and stone store, flat roof, 58.6′ x 94.7′; owners, Trustees Harvard College.

Beach St., No. 105, cor. Utica St., Ward 12, five-st'y brick store, flat roof, 29.11′ x 44.6′; owner, A. D. Puffer.

Brookline, Mass.—*Harvard St.*, cor. Kent St., brick block of stores, with apartments over, 60′ x 104′; owner, A. T. Lowe Estate; builder, B. W. Neal, Jr.; architects, Hartwell & Richardson, Boston.

Brooklyn, N. Y. — *Nassau Ave.*, s w cor. Diamond St., 3 three-st'y frame stores and dwells., tin roofs; cost, $4,000; owner and builder, A. Todebush, 324 Bleeker St.; architect, Benj. Finkensieper, 93 Broadway.

Buffalo Ave., s e cor. Atlantic Ave., 7 two-st'y frame stores and dwells., gravel roofs; total cost, $20,000; owner, T. S. Denike, 581A Macon St.; architect, Chas. Terry, Utica and Pacific Sts.

Richard St., e s, 75′ n Dykeman St., four-st'y brick store and dwell., tin roof; cost, $9,000; owner, Mrs. D. Zimmermann, Partition St.; architect, D. J. Lynch, 97 Partition St.

Fifteenth St., s w cor. Eighth Ave., 2 four-st'y brick stores and dwells., tin roofs; cost, $9,000 each; owner, architect and builder, W. Ninzerale, Sixteenth St. and Eighth Ave.

Broadway, s w cor. Hancock St., four-st'y brick store and apartment-house, tin roof; cost, $12,000; owner and builder, Wm. H. Barton, 10 Cooper St.; architect, W. M. Coots, 189 Montague St.

Broadway, s s, 79′ 4″ w Hancock St., 5 four-st'y brick stores and apartment-houses, tin roofs; cost, $42,500; owner and builder, Wm. H. Barton, 10 Cooper St.; architect, W. M. Coots, 189 Montague St.

Liberty Ave., s w cor. Logan St., three-st'y frame store and dwell., tin roof; cost, $5,000; owner, Wm. Mueller, Milford St., near Liberty Ave.; architect, Chas. Infanger, 126 Van Siclen Ave.

Pennsylvania Ave., e s, 180′ n Atlantic Ave., three-st'y brick store and dwell., tin roof; cost, $7,000; owner, Fred Moore, Pennsylvania Ave., near Atlantic Ave.; architects, Danmar & Fischer, Atlantic and Van Siclen Aves.

Liberty Ave., s e cor. Milford St., three-st'y frame store and dwell., tin roof; cost, $5,000; owner, Bessie Naughton, Liberty and Montauk Aves.; architect, W. U. Sloan, 112 Essex St.

Rockaway Ave., n e cor. Dean St., three-st'y frame store and dwell., tin roof; cost, $4,500; owner and builder, H. Seerman, Rockaway Ave.; architects, Danmar & Fischer, Atlantic and Van Siclen Aves.

Columbia Ave., 66′ 6″ from junc. Hamilton Ave., 5 four-st'y brick stores and flats, gravel roofs; cost, $28,000; owners, Chas. & M. Schwartz, Fulton and Flatbush Aves.; architect, J. G. Glover, 186 Remsen St.

Chicago, Ill. — F. S. Baird, 2 three-st'y store and flats, 1476-1478 West Lake St.; cost, $15,000.

Henry Breyer, three-st'y store and flats, 1727 Milwaukee Ave ; cost, $6,000.

E. Rich, 2 three-st'y stores and flats, Sixty-third and Sherman Sts.; cost, $15,000.

F. H. H. Henning, 5 four-st'y stores and flats, 1749 North Clark St.; cost, $40,000.

Thompson Blain and William Bliss, 2 three-st'y stores and flats, Seventy-ninth St., near Coles Ave.; cost, $4,700.

E. J. Able, four-st'y store and office, 457-459 Sixty-third St.; cost, $50,000.

Frederick Beck, three-st'y store and flats, 1106 Milwaukee Ave.; cost, $10,000.

A. F. Zimmerling, three-st'y store and flats, 661 Davis St.; cost, $4,000.

Frank Hevarik, three-st'y store and flats, 5000 Lincoln St.; cost, $3,000.

Ole Erdewig, two-st'y store and flats, 120 Humboldt Ave.; cost, $3,500.

Mrs. M. Gerrity, 2 two-st'y stores and flats, 9024-9026 Cottage Grove Ave.; cost, $6,000.

David E. Corneau, five-st'y store, 545-549 Wabash Ave.; cost, $70,000.

C. Larson, three-st'y store and flats, 307 Courtland Ave.; cost, $4,000.

Paul Gehrkes, three-st'y store and flats, 588 California Ave.; cost, $6,000.

Henry Bensemenn, 2 four-st'y stores and flats, 6222-6224 Halsted St.; cost, $15,000.

Charles Olsen, four-st'y store, shops and flats, 137 Milton Ave.; cost, $10,000.

William Hansburg, 2 three-st'y stores and flats, 7031-7033 Stony Island Ave.; cost, $10,000.

Paul F. Kuepel, two-st'y store and flat, 1785 Chicago Ave.; cost, $6,500.

Hugh Sweeney, two-st'y store and flat, Western Ave. and Owasco St.; cost, $5,000.

Bridget Ranon, three-st'y store and flat, 930 West Twelfth St.; cost, $6,000.

Aug. B. Pitner, two-st'y store and flat, 1922 Fortieth St.; cost, $3,000.

Roman Stebicek, four-st'y store and flats, 490 Milwaukee Ave.; cost, $15,000.

B. F. Weber, two-st'y store and flats, 3181 North Clark St.; cost, $8,000.

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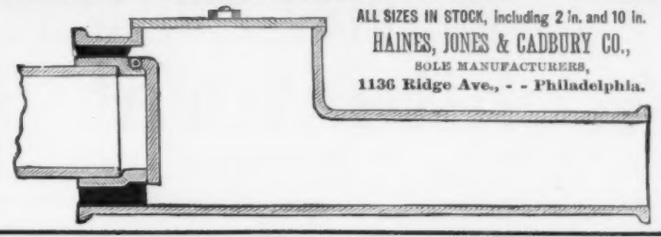

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Mrs. J. O'Conner, three-st'y store and flats, 38 Cypress St.; cost, $6,000.

William Boyd, three-st'y store and flats, 605 South Western Ave.; cost, $8,000.

Matilda Morrison, 3 four-st'y stores and flats, 699-703 West Taylor St.; cost, $10,000.

Thomas Rednarek, three-st'y store and flat, 3224 Mosprat St.; cost, $7,500.

Marjan Burns, 2 three-st'y stores and flats, 5644-5646 Lake Ave.; cost, $9,000.

Charles Stein, three-st'y store and flats, 935 North Clark St.; cost, $10,000.

Ludington Estate, eight-st'y store, Wabash Ave. and Harmon Ct.; cost, $400,000.

John York, five-st'y store, 765-775 South Halsted St.; cost, $40,000.

Mrs. H. A. Toy, two-st'y store and flat, 5209 Halsted St.; cost, $4,000.

K. Nielson, three-st'y store and flats, 1026 Armitage Ave.; cost, $4,500.

John Iverson, two-st'y store and dwell., 352 Hoffman St.; cost, $3,000.

Felix Mayor, three-st'y store, 1021 West Twenty-second St.; cost, $6,000.

J. A. McLennon, 12 five-st'y stores and flats, 131-153 Thirty-first St.; cost, $140,000.

Mrs. M. J. Miles, 2 three-st'y stores and flats, 1268-1270 East Ravenswood Park; cost, $10,000.

Gustaf Kuley, three-st'y store and flat, 5922 Wentworth Ave.; cost, $5,000.

Carrie Kamit, three-st'y store and flat, 393 West Thirteenth St.; cost, $5,000.

S. E. McCarthy, three-st'y store and flat, 240 North Western Ave.; cost, $4,000.

Cincinnati, O.—H. G. Hunnewell, four-and-one-half st'y brick and stone store and flats, Sixth St.; cost, $15,000; architect, E. F. Baude.

Detroit, Mich. — R. E. Raseman, three brick stores, 234-236 Gratiot Ave.; cost, $12,000.

Nutt & Clark, six brick stores, 667, etc., Third Ave.; cost, $32,000.

M. Scholes & Sons, brick store, 48-50 Jefferson Ave.; cost, $15,000.

C. Hamel, brick store and dwell., 605-607 Dix Ave.; cost, $5,000.

H. S. Peoples, nine brick stores and dwells., 1629, etc., Gratiot Ave.; cost, $20,000.

Conrad Fey, brick store, 808 Michigan Ave.; cost, $5,000.

J. M. Neuboefer, brick store and dwell., 62 Clinton St.; cost, $5,500.

Thomas Scheich, brick store and dwell., 828-830 Gratiot Ave.; cost, $8,500.

Grand Rapids, Mich.—*Pearl St.*, four-st'y cut-stone and brick store building; cost, $7 000; owners, Messrs. Wilmarth & Morman; builders, Hosken & Maunder; architect, W. G. Robinson.

East Fulton St., cor. Spring St., seven-st'y brick and stone store; cost, $40,000; owner, Wm. Kortlander; builders, A. Bremgartner & Co.; architect, S. J. Osgood.

Montreal, Can. — *St. Catherine St.*, several stores and dwells.; owners, E. Burke & Co.; architect, E. Maxwell, 725 Craig St.

New York, N. Y. — *Broadway, Nos.* 756-760, seven-st'y brick store, tin roof; cost, $130,000; owner, Simon Desson, 140 East Seventy-ninth St.; architects, Messrs. Reeves & Son, 354 Amsterdam Ave.

Murray St., No. 110, five-st'y brick store, tin roof; cost, $16,000; owner, Mrs. L. S. Jones, 21 East Eleventh St.; architect, H. M. Reynolds, 63 West Forty-fourth St.

Union Square, No. 33, eleven-st'y brick store, peak, gravel and tile roof; cost, $200,000; owner, Sarah A. Townsend, *et al.*, 77 Park Ave.; architect, Alfred Zucker, Lincoln Building, Union Square.

West Houston St., No. 124, six-st'y brick store, tin roof; cost, $20,000; owner, Wolf Estate, 635 Fifth Ave.; architect, Chas. W. Clinton, 32 Nassau St.

One Hundred and Twenty-fifth St., n s, 100′ e Tenth Ave., five-st'y brick store, tin roof; cost, $40,000; owner, Peter J. Algie, 35 West One Hundred and Thirteenth St.; architect, Arthur Boehmer, 722 East One Hundred and Seventy-seventh St.

Sixth Ave., n e cor. Fifty-seventh St., five-st'y brick store, tin roof; cost, $25,000; owner, Arthur E. White, 560 Fifth Ave.; architects, Thom & Wilson, 1267 Broadway.

City Hall Pl., No. 26, six-st'y brick store, tin roof; cost, $12,000; owner, Patrick Murphy, 773 Carroll St., Brooklyn; architect, R. M. Upjohn, 111 Broadway.

TENEMENT-HOUSES.

Boston, Mass.— *Chapman St., No.* 53, Ward 16, five-st'y brick tenement, flat roof, 53′ x 60′; owners, S. F. Squires and C. E. Hewes.

New York, N. Y. — *One Hundred and Fifty-seventh St.*, n w cor. Courtland Ave., four-st'y brick tenement, tin roof; cost, $14,000; owner, John Hohner, 177 Courtland Ave.; architect, C. F. Lohse, 3055 Third Ave.

One Hundred and Sixteenth St., n s, 95′ e Pleasant Ave., three-st'y brick tenement, tin roof; cost, $25,000; owner, Geo. W. Plunkitt, 323 West Fifty-first St ; architect, John T. Brady, 525 East One Hundred and Eighteenth St.

One Hundred and Thirty-third St., s s, 325′ e Seventh Ave., 3 four-st'y brick tenements, tin roofs; cost, $36,000; owner, James McKenna, 14 West Ninety-fourth St.; architect, J. H. Valentine, One Hundred and Twenty-first St. and Eighth Ave.

One Hundred and Fifty-second St., s s, 100′ w Courtland Ave., four-st'y brick tenement, tin roof; cost, $13,000; owner, Sarah J. Mason, 631 Courtland St.; architect, M. J. Garvin, 3311 Third Ave.

Melrose Ave., n e cor. One Hundred and Fifty-third St., four-st'y brick tenement, tin roof; cost, $12,000; owner, August Zehder, Melrose Ave., bet. One Hundred and Fifty-third and One Hundred and Fifty-fourth Sts., and C. F. Lohse, 3055 Third Ave.

THEATRES.

Cincinnati, O.—Fountain Square Theatre Co., brick and stone theatre, Loge Alley; cost, $37,000; architect, Jos. W. McLaughlin.

WAREHOUSES.

Baltimore, Md. — George W. M. Crook will build four-st'y brick warehouse, e s Eutaw St., bet. Lexington and Saratoga Sts.

M. F. McCormick will build five-st'y brick warehouse, e s Howard St., bet. Saratoga and Mulberry Sts.

PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., August 22, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 15th of September, 1892, and opened immediately thereafter, for all the labor and materials required for furnishing and fixing in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Custom-house, Post-office and Court-house building at El Paso, Texas, in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at El Paso, Texas. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, or to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals must be enclosed in envelopes sealed and marked "Proposal for the Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Custom-house, Post-office and Court-house at El Paso, Texas," and addressed to W. J. EDBROOKE, Supervising Architect. 871

Treasury Department, Office Supervising Architect, Washington, D. C., August 13, 1892. Sealed proposals will be received at this office until two o'clock, P. M. on the 9th day of September, 1892, and opened immediately thereafter, for furnishing all the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Court-house and Post-office building at Statesville, N. C., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Custodian at Statesville, N. C. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Court-house and Post-office building at Statesville, N. C.," and addressed to W. J. EDBROOKE, Supervising Architect. 870

Treasury Department, Office Supervising Architect, Washington, D. C., August 8, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 30th day of August, 1892, and opened immediately thereafter for furnishing all the new steam and return risers, new radiators, removing old coil radiators, etc., for the United States Court-house and Post-office building at New York City, N. Y., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at New York City, N. Y. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the New Steam and Return Risers, New Radiators, etc., for the United States Court-house and Post-office building at New York City, N. Y.," and addressed to W. J. EDBROOKE, Supervising Architect. 870

Treasury Department, Office Supervising Architect, Washington, D. C., August 12, 1892. Sealed proposals will be received at this office until two o'clock P. M. on the 6th day of September, 1892, and opened immediately thereafter, for furnishing all the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Court-house, Post-office and Custom-house building at Vicksburg, Miss., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Vicksburg, Miss. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government

(*Continued on page* xxiii.)

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PROPOSALS.

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Proposals for Bronze Brackets and Railings. Office of Building for Library of Congress, 145 East Capitol Street, Washington, D. C., August 18, 1892. Sealed proposals for furnishing and delivering the bronze gallery brackets and railings for the exterior walls of the book-stacks of the Building for the Library of Congress, in this city, will be received at this office until 2 o'clock P. M. on Saturday, the 3d day of September, 1892, and opened immediately thereafter in presence of bidders. Specifications, general instructions and conditions and blank forms of proposal may be obtained on application at this office. BERNARD R. GREEN, Superintendent and Engineer. 870

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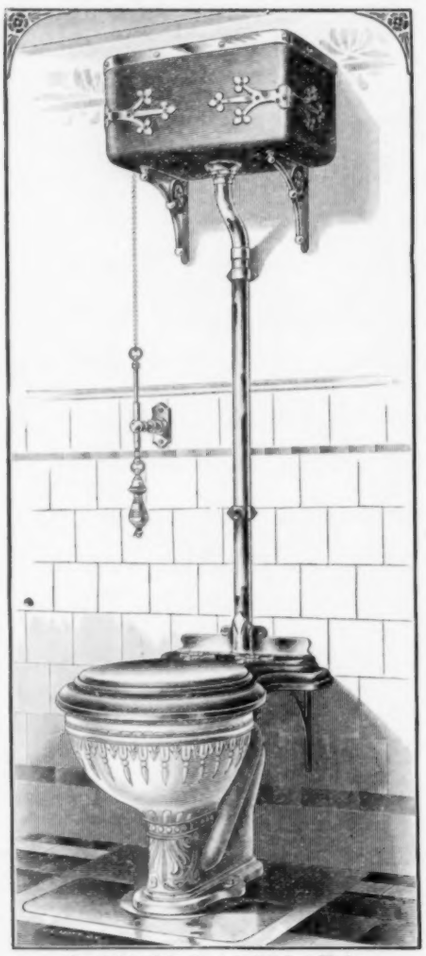

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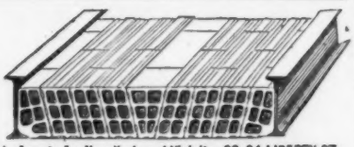
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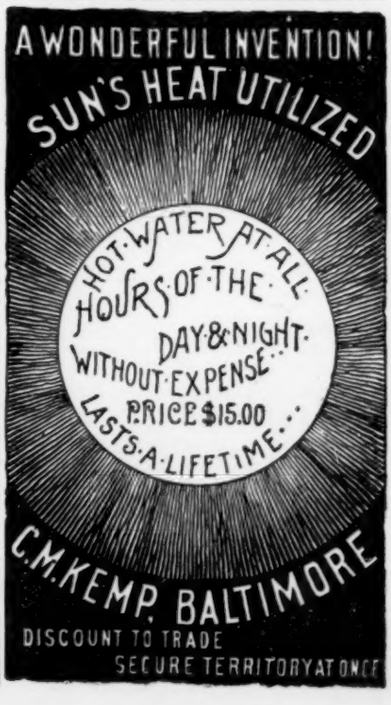

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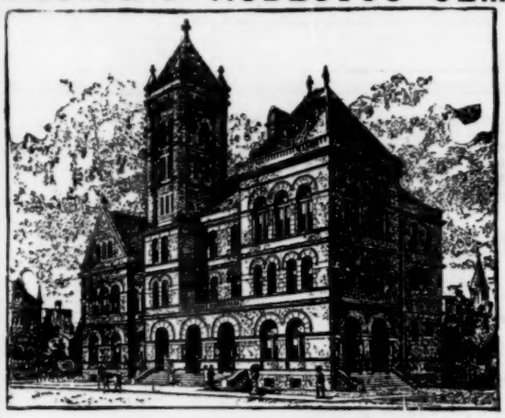
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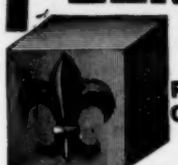
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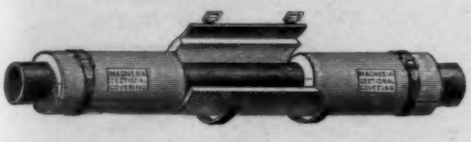

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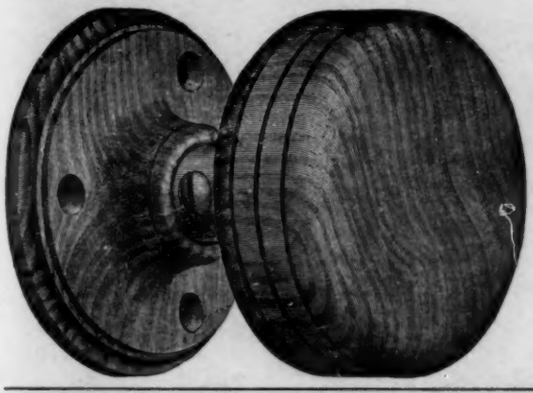

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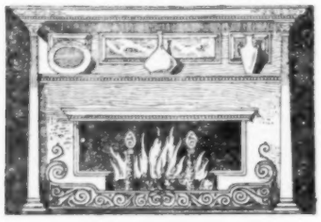

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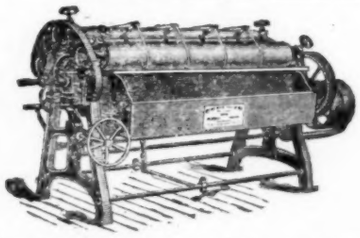

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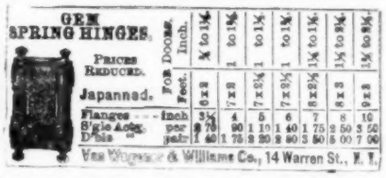

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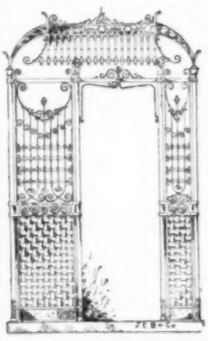

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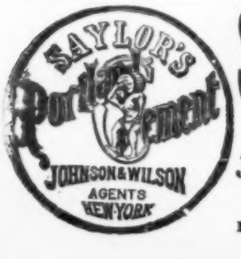

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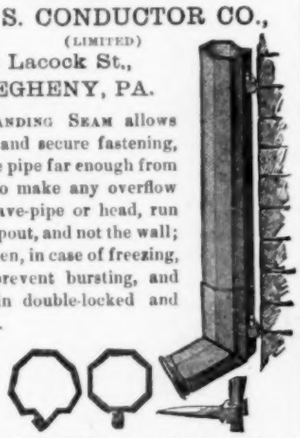

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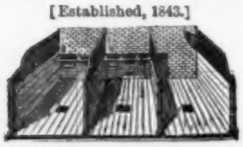

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" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	Josson
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	2 60 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover)	2 50 @ 3 00		*Not sold.*	2 75 @ 2 85
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	2 70 @ 3 00
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush 25 @ 30
Hydraulic Lime	@ 1 45	@ 1 35		White Mash 1 25 @ 1 50
Chicago Lime in bulk		St. John 1 00	55 @	1 00 @ 1 00
Wisconsin Lime			60 @	
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ bush	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		35 @ 60	75 @ 1 50
Serpentine	@	10 50 per ton	@ 1 00	₱ Perch @ 4 00

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Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in. th. 10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	} 55 @ 1 00
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	3 25 @ 4 00
" " Chapmans	@	@	7 30 @ 8 00	00 @ 4 65
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am ...℔ M	@	@	*Not Sold.*	@ 25 00
N. Peach Bottom, warranted unfading	@	@	@	6 00 @ 6 75
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	@ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	40 @ 41	57 @ 60	@ 60
" " boiled. (℔ gal.)	58 @ 65	43 @ 44	60 @ 63	@ 63
Turpentine (℔ gal.)	36 @ 37	@ 34	51 @ 51	@ 44
Varnish, coach (℔ gal.)	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac (℔ gal.)	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting (℔ cwt.)	75 @ 1 00	1 @ 1½	1 @ 1½	½ @ 1
Paris white, (Eng.) (℔ cwt.)	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am (℔ cwt.)	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per lb 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask 2 90 (all kinds.)
Butts: 4" x 4" ..... (℔ doz. pairs.)	@ 1 00	@ 1 20	@ 90	@ 90
Plain	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 75
Acorn, Japanned	@ 65	@ 50	*Not Sold.*	48 @ 50
Ball Tip, Boston Finish ....(℔ pair.)	@ 1 90	plain 1 65	2 00 @ 3 25	@ 1 25
Bronze metal	@ 10	@ 10	@ 12	@ 1 00
Brass (for cupboards.)	@	@	@	@ 35
Ebony	@	@	@	37 @ 1 00
Apple wood				
Knobs: (℔ *set.*)				
Mineral, best	@ 8	@ 8	8 @ 10	@ 08
Lava	@ 50	@ 75	65 @ 80	*Not Sold.*
Hemacite	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Porcelain	@ 30	@ 10	25 @ 30	@ 25
Glass, solid	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, silvered	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:	@	@	13 @ 16	13½ @ 16
Sheet Lead	@	@ 7½	@ 7	@ 6½
Lead Pipe	@	@ 6½	@ 6½	6 @ 6
Iron:				
I-Beams, up to and including 36 ft.	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ¼, ½, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
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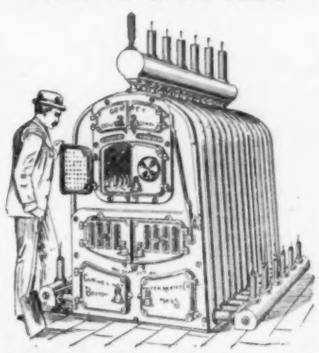

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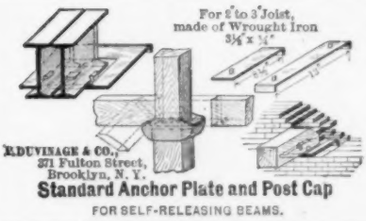

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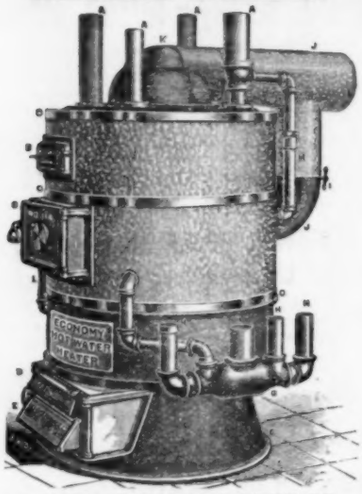

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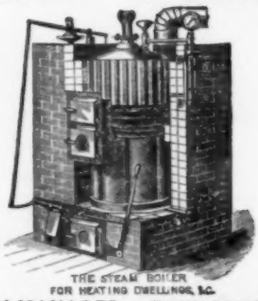

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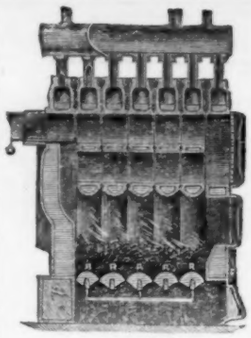

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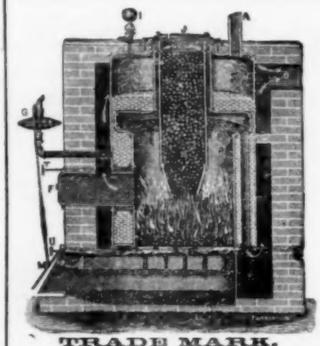

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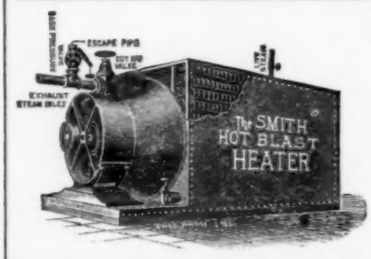

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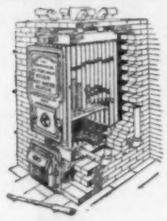

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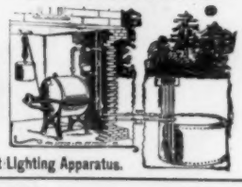

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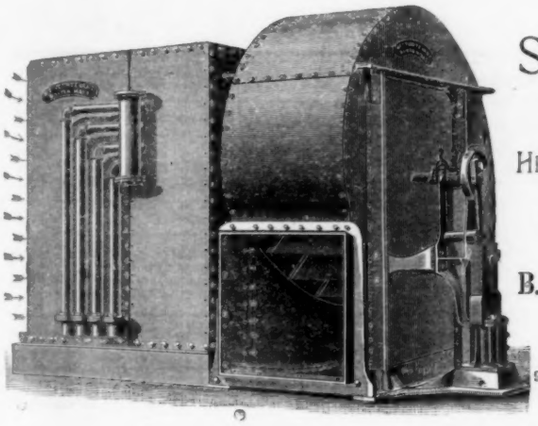

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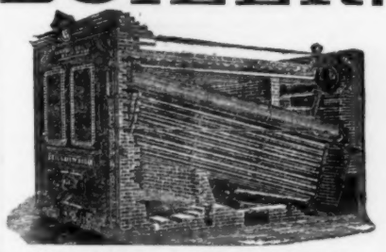

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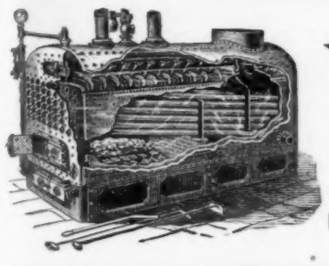

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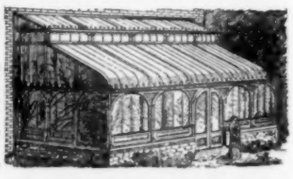

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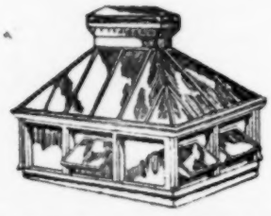

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THE following Report by Prof. J. S. Newberry, Professor of Geology and Paleontology in the Columbia College School of Mines, in which he has established a museum of 100,000 specimens of rare value, should be given due weight as being the opinion of the highest living authority upon the subject of which he writes.

Dr. Newberry was born in Windsor, Ct., December 23, 1822. He graduated from Western Reserve College in 1846, and from the Cleveland Medical College in 1848, spent two years in study abroad, and then began the practice of medicine in Cleveland, where he remained until 1855.

During this year he was appointed acting Assistant-Surgeon and Geologist to the party, which under Lieut. Robert S. Williamson, explored the country between San Francisco and the Columbia River. He assisted Lieut. Joseph C. Ives in the exploration of the Colorado River, and was with Capt. John N. Macomb, on the San Juan and Upper Colorado Rivers. In 1859 Prof. Newberry travelled over the plains of Southern Colorado, Utah, Northern Arizona and New Mexico.

In 1866 Prof. Newberry was elected Professor of Geology and Paleontology in the Columbia College School of Mines. In 1869 he was appointed State Geologist of Ohio.

Seven years ago he was appointed paleontologist to the United States Geological Survey, having charge of the investigation of fossils, botany and fishes. Western Reserve College conferred the degree of LL. D. upon him in 1867. In 1888 the Geological Society of London presented him with the Murchison gold medal. He is a member of the Scientific Societies of America and Europe, was named by Congress one of the corporate members of the National Academy of Science, has been President of the American Association for the Advancement of Science, and of the New York Academy of Science since 1867, and is President of the Torrey Botanical Club.

Dr. Newberry is the author of more than two hundred titles, and stands in the front rank of the mining experts of the world.

The Potsdam Sandstone from the quarries of the Potsdam Red Sandstone Company, has been used so extensively by builders of the United States and Canada, and its reputation is so well established, that it might seem that no further word was needed on this subject. It has been under my observation for many years in the public buildings at Ottawa, Canada, and elsewhere, and more particularly in the recently constructed buildings of Columbia College, New York. I had subjected the stone used at Columbia to microscopic observation, chemical analysis and physical tests, at the time when the choice of stone was under consideration by our architect. From these experiments I had learned as I supposed all that it was necessary to know about the stone, viz: that it was a dark red banded sandstone, having a resistance to a crushing force of 17,000 to 18,000 pounds per square inch; that it consisted of silica with a slight ingredient of iron, from which it took its color, and preferable so far as strength, homogeneousness and durability were concerned to any other sandstone known to me. I therefore unhesitatingly recommended its use, and I have never since had occasion to change my mind in regard to its superiority. Still, when I went over the ground and examined the stone in place, and noticed the marked difference in the stone of the different quarries of this company, and especially when I had subjected a new series of specimens to tests for physical strength, I found that I had much to learn in regard to its variety and excellence.

In the first place I discovered that instead of one, there are at least three marked varieties of this stone, possessing different degrees of strength and shades of color, affording to the architect a means of securing a range of effects, when used either singly or in combination. Also, that the stone which we had used at Columbia, though possessing greater strength than any sandstone submitted to trial, was far surpassed in this respect by some of the other varieties attainable, and that the strongest not only exceeded in strength all other varieties of stone tested at the School of Mines, but even resisted the full crushing force of the powerful Emery testing-machine, which we have recently had constructed, and which was supposed to be capable of reducing to powder any building stone submitted to its action. The resistance to crushing force in the specimens tested, varied from 18,401 pounds to the square inch to 42,804, or rather to and beyond the extreme crushing force of our machine; for it was found impossible to overcome with the machine the resistance of two inch cubes of the strongest stone, although the pressure was carried up to 151,000 pounds. Hence we can say that the resistance to crushing force, of the strongest variety, exceeds 42,000 pounds to the square inch, a result greater than we have obtained from tests on granite of any kind, from trap or any other variety of building stone.

The element of beautv is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C.

As I have said, I was surprised to find in the different quarries of this Company so many varieties of color in the stone. In the west quarries, the typical "Red Potsdam," either plain or banded, prevails. On their southern tracts are outcrops of homogeneous and monochrome, chocolate-colored stone in heavy ledges, which will yield blocks of any desired size, while in their quarries on the east side are exposed about fifty feet of rather massive layers, separated by a band of fifteen feet of foundation orbri dge stone. The upper and lower bands composing the fifty feet referred to, are mainly of light colored homogeneous stone, to which I was a stranger before visiting the quarries. This is of a reddish cream-color, very uniform in tint and pleasing to the eye. It comes out in layers from two to six feet in thickness and splits with ease and certainty in any direction. With the chocolate-colored stone, to which reference has been made it may be combined with fine effect, one variety being used for trimming to the other, as corner stones, door and window caps, porches, etc., or associated as block stones in plain walls.

This cream-colored variety works with comparative ease, and may be wrought into moulding and ornaments, much more cheaply than the harder varieties, which will be best used when hammer dressed, a style of treatment to which every phase of the stone will lend itself, as it breaks true and even under the hammer.

The different tracts of land controlled by this Company comprise about two hundred acres, distributed for about a mile up and down Racquette river, and selected with judgment so as to embrace the best outcrops of stones found in the district. On all these tracts the Potsdam sandstone is practically the surface rock, being covered only with a layer of greater or less thickness of boulder clay. In quantity, therefore, the quarries are practically inexhaustible, and it is not too much to say that they may be worked for centuries without embarrassment.

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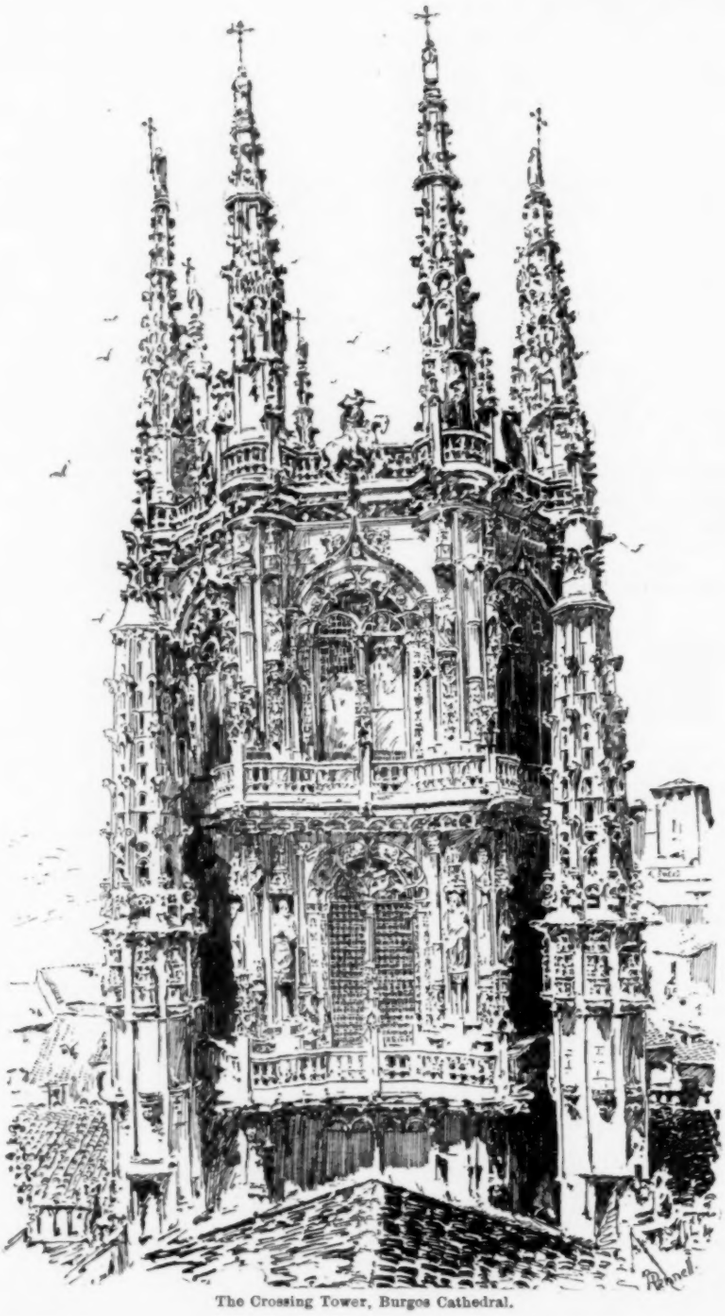

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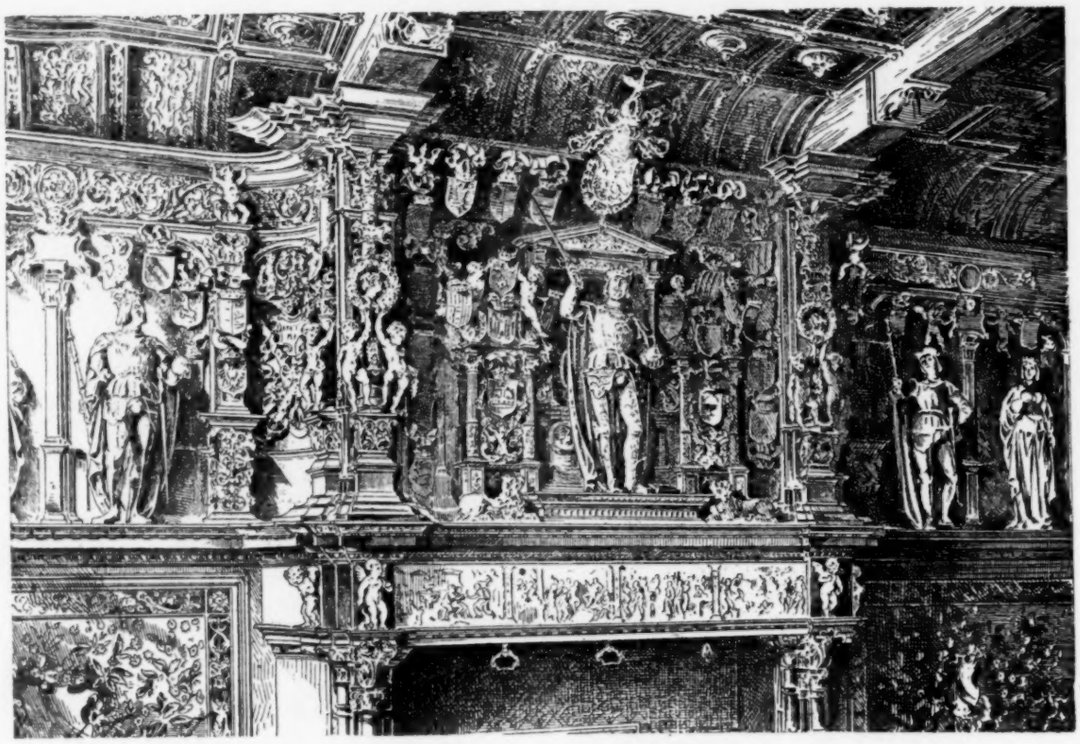

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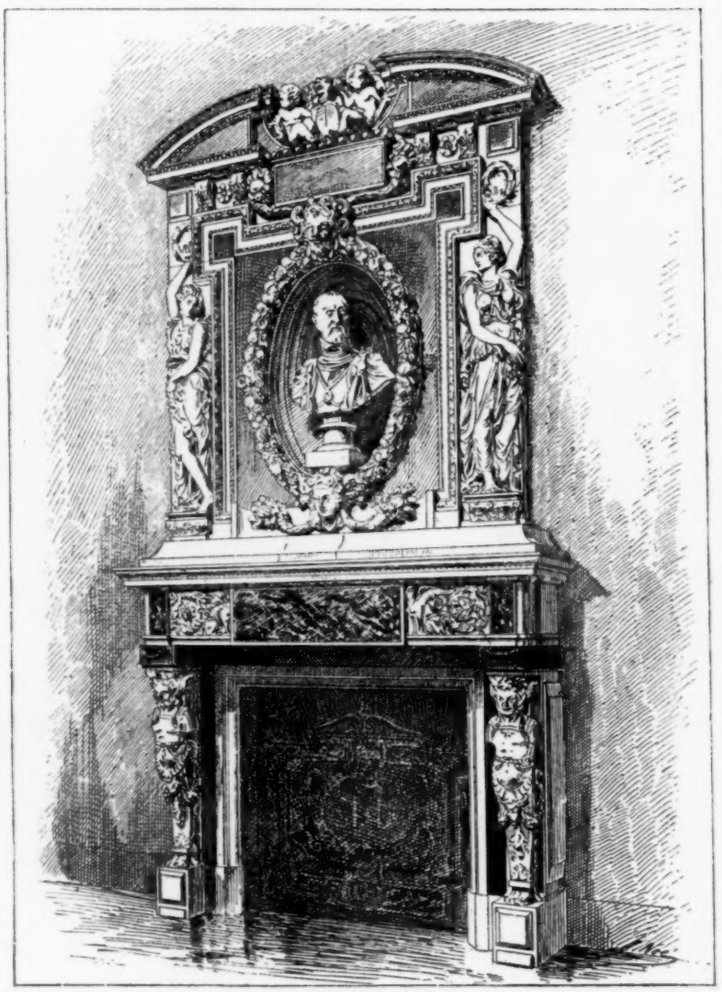

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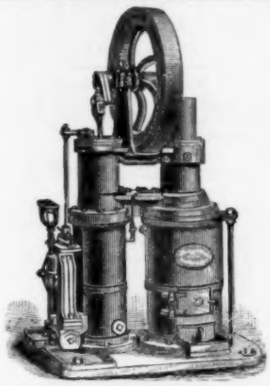

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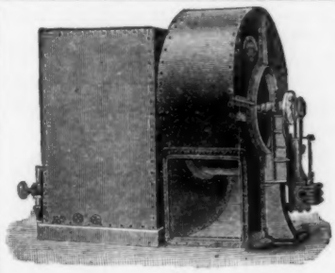

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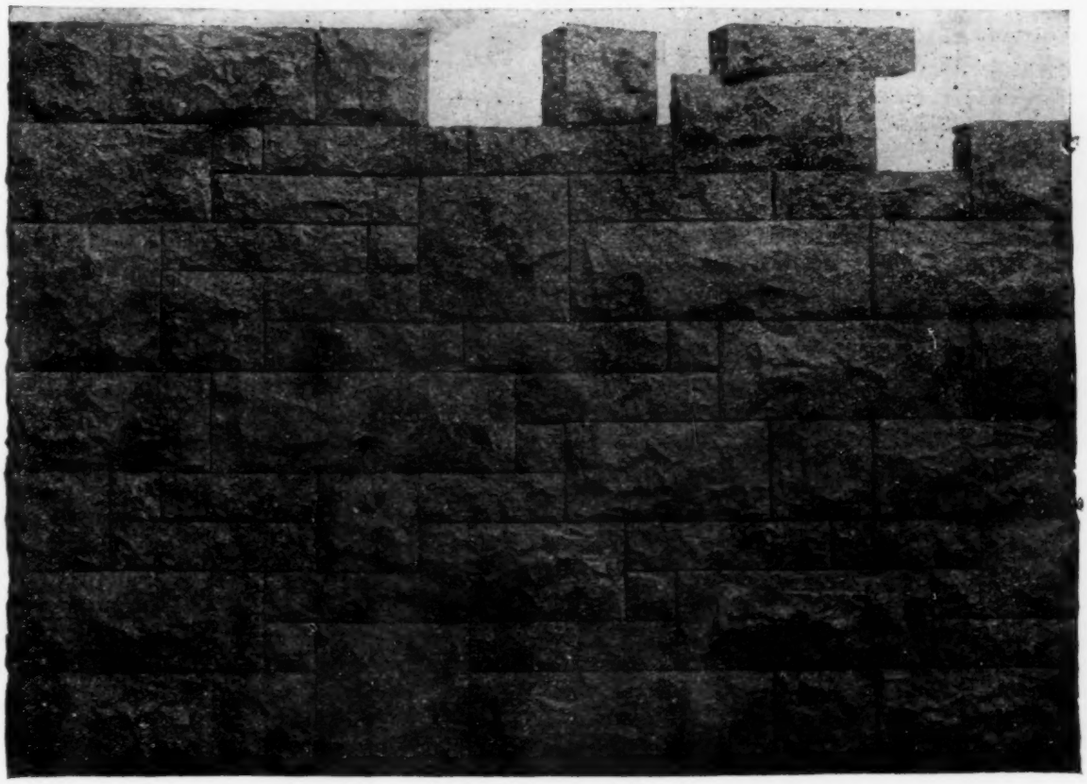

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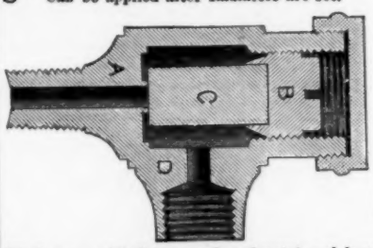

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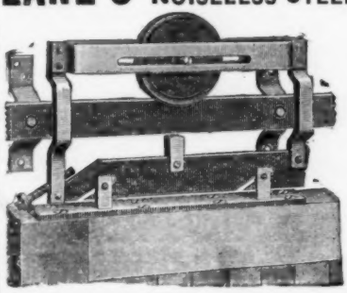

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New Advertisements.

MERCHANT & CO. (Philadelphia, Pa.), Roofing Tin. Page 4, Supplement.
MAGEE FURNACE CO. (Boston, Mass.), Furnaces. Page 4, Supplement.
STANDARD SMOKE CONSUMER CO. (Boston, Mass.), Smoke Consumer. Page iii.
J. B. SHANNON & SONS (Philadelphia, Pa.), Brass Moulding. Page xxvi.
E. S. WHEELER & CO. (New Haven, Ct.), Roofing-Tin. Page xx.
HAINES, JONES & CADBURY CO. (Philadelphia, Pa.), Bath-Tubs. Page xxiii.

PERSPECTIVE DRAWING.

The *American Architect* Drawing-Office will undertake the preparation of perspective drawings in line or color from scale drawings, or will render drawings already in outline. Address the editors.

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BUILDING PATENTS.

[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

479,801. SELF-ACTING WIND-PROOF DAMPER. — Augustin J. Ginther, Buffalo, N. Y.
479,813. DOOR-CHECK. — Joseph Keene, Chicago, Ill.
479,814. ELECTRICAL WATER-HEATER. — Rankin Kennedy, Kilmarnock, Scotland.
479,865-866. APPARATUS FOR PURIFYING SEWAGE. —John Wilson, New York, N. Y.
479,869. GAS WATER-HEATER.—Walter S. Wright, Chicago, Ill.
479,873. SECTIONAL WATER-BOILER. — Thomas Doherty, Sarnia, Canada.
479,916. OPEN FIRE-GRATE. — John H. McIlvain, Camden, N. J.
479,943. ELEVATOR.— Lewis M. Hosea, Cincinnati, Ohio.
479,956. DEVICE FOR OPERATING ELEVATOR-DOORS.—Harold Rowntree, Kansas City, Mo.
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PROPOSALS.

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[At Charlestown, Mass.]

Drawings and specifications for gutters, conductors, ventilator caps and slating of the roof of the new north wing of State Prison at Charlestown are now ready at this office, where full information will be given and proposals received **up to noon of Saturday, September 10.**

The right is reserved to reject any or all proposals. A bond may be required for the execution of the work. Envelopes must be endorsed "Proposals for Covering Prison Roof." HARTWELL & RICHARDSON, Architects, 62 Devonshire Street, Boston.
871

BUILDING PATENTS.

479,981. PLUMB-LEVEL. — James F. Hall, Kansas City, Mo.
480,016. BEVEL. — David Hoadley, Naugatuck, Conn.
480,046. PORTABLE WINDOW-SCAFFOLD.— Adolph and Carl Stauber, Clinton, Iowa.
480,075. LATCH. — George N. Duncan, Greenwich, Mass.
480,086. FURNACE. — Thomas R. Freeman, Sioux Falls, S. D.
480,090. FAUCET. — James M. Gilmour, East Orange, N. J.
480,099. ELECTRIC JAIL-PLATE.—William S. Hull, Sheffield, Ala.
480,100. ELECTRIC SCREEN FOR DOORS OR WINDOWS.—William S. Hull, Sheffield, Ala.
480,120. WALL OR CEILING COVERING. — John P. McMurray, San Francisco, Cal.
480,134. BRICK-KILN. — William Radford, San Francisco, Cal.
480,136. SHUTTER-BOWER. — Herman Reichwein, Spring Lake, N. J.
480,148. SASH-FASTENER. — Edward R. Theby, Neenah, Wis.
480,202. ELEVATOR.—Edward W. Moon, St. Louis, Mo.
480,203. WINDOW-SASH. — Edwin Moore, Brooklyn, N. Y.
480,222. DOOR-CHECK. — Charles H. Timms and John Day, Oregon.
480,236. DOOR-LOCK.—Charles F. Garland, Chelsea, Mass.
480,237. ALARM-LOCK.— Ralph M. Metcalf, Luton, Iowa.
480,238. HINGE. — Frank X. Ranker, Pittsburgh, Pa.
480,704 HOUSE-DOOR PARCEL-BOX.— George Benicke, Neumünster, Germany.
480,719. STEAM-GENERATOR. — Hermann Goering, Birkenfeld-on-the-Nahe, Germany.
480,729. ELECTRICAL DROP ANNUNCIATOR.—Thos. W. Lane, Boston, Mass.
480,747. SPRINKLER SYSTEM.—William C. Shaffer, Milwaukee, Wis.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING AUGUST 26, 1892.

From Antwerp. —Steamer "*Noordland*," 100 girders, Brown Bros. & Co.; 750 barrels cement, E. Thiele; 5,000 do., order.

From Bay St. George, N. S.— Schooner "*Eureka*," 175 tons plaster, 2 barrels do., Calvin Tomkins.

From Bremen. — Steamer "*Dresden*," 1,512 casks cement, order.

From Catania. — Steamer "*Bedouin*," 4,219 blocks asphalt, order.

From Colon. — Steamer "*City of Para*," 37 logs wood, Eggers & Heinlein.

From Frontera. — Schooner "*Henrietta J. Powell*," 324 logs mahogany, J. Rayner.

From Geestemunde. — Ship "*Ida*," 560 casks cement, Baetjer & Meyerstein; 1,554 do., order.

From Glasgow. — Steamer "*Siberian*," 14 blocks stone, G. P. Sherwood; 28 barrels enamelled bricks, Charles R. Weeks & Bros.; 275 cases granite, Austin, Baldwin & Co.; 13 do., Alfred White & Sons; 21 do., R. F. Downing & Co.

From Hamburg. — Ship "*Sam Hold*," 560 casks cement, 560 barrels do., Gabriel & Schall; 4,637 do., order.

From Havana. —Steamer "*Yumuri*," 367 logs cedar and mahogany, order.

From Hillsboro, N. B.—Schooner "*D. J. Sawyer*," 1,325 barrels plaster, Calvin Tomkins; 373 tons do., Newark Lime and Cement Co.

From Leghorn. — Bark "*Cedar Croft*," 62 blocks marble, 628 slabs do., Pells & Co.; 34 blocks do., G. Amsinck & Co.; 15 do., 513 slabs do., order.

From Liverpool. — Steamer "*Nomadic*," 20 logs mahogany, order. Steamer "*Nevada*," 235 packages bricks, Meeker & Carter; 20 cases granite, Jones Bros. Steamer "*City of Chester*," 14 logs mahogany, order.

From London. — Steamer "*Spain*," 1,469 casks cement, 3 logs wood, order. Steamer "*America*," 2 logs hard wood, Willard Hawes & Co.; 600 casks cement, order. Ship "*Marlborough*," 1,000 casks cement, E. Thiele; 1,500 do., C. J. Stevens.

From Marseilles.—Steamer "*Britannia*," 10 blocks marble, A. Roussel.

From Rio Janeiro. — Steamer "*Strabo*," 175 logs wood, Brown Bros. & Co.

From Rotterdam. — Steamer "*Werkendam*," 2,000 casks cement, E. Thiele. Steamer "*Amsterdam*," 2,000 casks cement, E. Thiele.

From Stettin. — Steamer "*Italia*," 445 cases firebricks, Illinois Glass Co.; 1,806 casks cement, 5,480 barrels do., 4 half-barrels do., order.

From Swansea. — Steamer "*Merrimac*," 27,500 firebricks, Hammill & Gillespie.

From Tlacotalpan. — Schooner "*Mavoorsheer*," 244 logs mahogany, H. Marquardt & Co. Schooner "*Maud Briggs*," 253 tons cedar timber, Seaboard Lumber Co.

From Vera Cruz. — Steamer "*Yumuri*," 210 blocks marble, O'Kelly & Co.; 658 do., Robert C. Seya.

From Wentworth, N. S. — Schooner "*Phœnix*," 675 tons plaster, J. F. Whitney & Co. Schooner "*Davida*," 616 tons plaster, Gypsum Co.

From Windsor, N. S.— Schooner "*Wentworth*," 275 tons plaster, J. F. Whitney & Co. Schooner "*Harry*," 800 tons plaster, Wotherspoon Bros. Schooner "*Gypsum King*," 1,170 tons plaster, J. F. Whitney & Co.

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IMPORTS OF BUILDING MATERIALS, Etc.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

ALTERATIONS.

Camden, N. J. — *Fourth St.*, s w cor. Federal St., alteration to frame store; builder, John Corbett.

Locust St., Nos. 648-650, alterations to two brick dwells.; owner, W. G. Patten, 2037 North Twenty-first St., Philadelphia.

Lewis and Chestnut Sts., alteration and addition to one-and-one-half-st'y frame building; owner, Jacob Heator.

South Sixth St., No. 609, frame addition; owner, Jacob Curry.

Division St., No. 405, frame alteration to dwell.; owner, John Kline.

Sycamore St., s e cor. Seventh St., frame alteration to dwell.; owner, Isadore Green.

South Eighth St., No. 829, alteration to brick store; owner, James M. Ross.

Kaighn's Ave., No. 701, alteration to brick store; owner, James Deegan.

Chicago, Ill. — Mary Barns, two-st'y addition and new front, 32 College Pl., cost, $4,000.

W. Deering, three-st'y addition, Fullerton Ave. and N. W. R. R. track; cost, $35,000.

Chicago Warehouse Co., one-st'y addition, 72-80 Market St.; cost, $3,000.

Central Church, front addition, 3665-3669 Indiana Ave.; cost, $15,000.

Union Stock-Yards Co., one-st'y addition to Transit House, Halsted St., near Forty-first St.; cost, $10,000.

F. H. Brown, four-st'y addition, 3731 Langley Ave.; cost, $8,000.

(*Continued on page* xvii.)

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Charles Jamdorf, one-st'y addition, 305-307 Blue Island Ave.; cost, $3,200.

W. Egebrecht, one-st'y addition, 451-467 Seminary Ave.; cost, $4,000.

Charles Antkowski, two-st'y addition, 689 West Eighteenth St.; cost, $4,000.

New York, N. Y.—*East Thirty-ninth St., No.* 117, four-st'y brick dwell., extensive alterations; cost, $4,500; owner, Samuel Sloan, 7 East Thirty-eighth St.: architect, L. C. Holden, 1 Union Square.

Worth St., No. 200, five-st'y brick factory, interior alterations; cost, $3,600; owner, David Rothschild, 3 Mott St.; architect, Otto C. Wolf, 543 Fifth Ave.

Ridge St., Nos. 120-122, one-st'y brick workshop, internal alterations; cost, $5,000; owner, Joseph Salmon, 122 Ridge St.; architects, Herman Horenburger & Straub, 122 Bowery.

Tenth Ave., bet. Fifteenth and Sixteenth Sts., six-st'y brick factory, three tiers of iron bridges and other changes; cost, $10,000; owners, New York Biscuit Co., 101 West Eighty-first St.; architect, Emil Gruive, 298 West Twelfth St.

Philadelphia, Pa.—*Forty-third St., Nos.* 404-416, s s, five-st'y addition; builders, Gallagher & Stevenson, 1021 Hunter St.

Forty-eighth St. and Lancaster Ave., alterations and additions to the Roman Catholic Church; architect, E. F. Durang, Twelfth and Chestnut Sts.

Moyamensing Ave. and Morris St., alterations to interior of M. E. Church of the Messiah; architect, Thomas P. Lonsdale, Manhattan Life Building.

Chestnut St., n s, w Fourth St., alterations and additions to bank; builders, Stacy Reaves & Sons, 1611 Filbert St.

Twelfth St., addition to Friends' Meeting-house; architect, Walter Smedley, 435 Chestnut St.

APARTMENT-HOUSES.

Brooklyn, N. Y.—*Madison St.*, n s, 120' from Stuyvesant Ave., four-st'y brick double flat, tin roof; cost, $10,000; owner, F. M. Spear, 328 Park Place; architect, George Smith.

Chicago, Ill.—G. Rockow, three-st'y flats, 5007 Calumet Ave.; cost, $6,000.

W. G. Press, 4 four-st'y flats, 341-349 Sixty-second St.; cost, $50,000.

B. F. Kay, three-st'y flats, 1117 West Monroe St.; cost, $8,000.

Dr. D. D. Ross, three-st'y flats, 3812 Prairie Ave.; cost, $6,500.

Henry Jaeschke, 2 three-st'y flats, 1867-1769 Halsted St.; cost, $12,000.

Hiram Hodgdon, 2 two-st'y flats, 927-929 Fifty-fourth St.; cost, $5,000.

P. J. Gorman, 5 three-st'y flats, Nineteenth and Mackinaw Sts.; cost, $4,000.

Jacob J. Holtz, two-st'y flats, 332 Clybourn Ave.; cost, $4,000.

Mary K. Rorig, three-st'y flats, 1536 West Polk St.; cost, $7,500.

BUILDING INTELLIGENCE.

Henry Manzel, four-st'y flats and barn, 1104 Milwaukee Ave.; cost, $14,000

J. W. Hughes, two-st'y flats, 717 Forty-eighth St.; cost, $3,000.

Mrs. C. Wickersham, three-st'y flats, 6239 Sheridan Ave.; cost, $5,500.

John Bonfield, two-st'y flats and barn, 4743 Wabash Ave.; cost, $4,000.

Emil Uffer, three-st'y flats, 6550-6552 Ellis Ave.; cost, $5,000.

Repenning & Coqul, 2 two-st'y flats, 1541-1543 Taylor St.; cost, $4,000.

W. D. Kerwin, 2 two-st'y flats, 3839-3841 Elmwood Pl.; cost, $8,000.

Mary Purcell, two-st'y flats, 1517 North Twelfth St.; cost, $4,000.

A. Buchanan, three-st'y flats, 227 South Morgan St.; cost, $6,000.

Fritz Spang, 2 two-st'y flats, 397-399 Roscoe Boulevard; cost, $5,000.

J. J. Love, two-st'y flats, 1518 Otto St.; cost, $5,000.

Ellen Spry, two-st'y flats, 7301 Langley Ave.; cost, $3,000.

"Sydney" Apartment Building, Michigan Ave. and Forty-eighth St.; cost, $200,000.

George Sneuler, two-st'y flats, 1558 West Adams St.; cost, $5,500.

Turner & Bond, 3 three-st'y flats, 3018-3022 Butler St.; cost, $75,000.

Stanton & Wilson, 2 two-st'y flats, 1436-1438 Park Ave.; cost, $5,000.

Maurice Nash, four-st'y flats, 184 Milton Ave.; cost, $7,000.

L. B. Montonya, 2 four-st'y flats, 491 Dearborn Ave.; cost, $20,000.

August Grihl, two-st'y flats, 3068 Lock St.; cost, $4,000.

Michael McMahon, 2 two-st'y flats, 3213-3315 South Wood St.; cost, $8,000.

W. J. Haether, two-st'y flats, 1617 Roscoe St.; cost, $6,000.

Henry Remsteadt, three-st'y flats, 66 Jay St.; cost, $5,000.

H. M. Kilroy, two-st'y flats, 2941 Union Ave.; cost, $4,000.

Abraham Harris, four-st'y flats, 486 South Morgan St.; cost, $14,000.

P. F. McMamee, 2 two-st'y flats, 2510-2512 Commercial Ave.; cost, $11,000.

W. J. Haether, two-st'y flats, 1521 Roscoe St.; cost, $6,000.

H. G. Loomis, four-st'y flats, 4320-4322 Forestville Ave.; cost, $30,000.

Annie Bartholin, two-st'y flats, 4310 Calumet Ave.; cost, $5,000.

John Hess, two-st'y flats, 594 West Division St.; cost, $3,000.

Cust. T. Rebell, two-st'y flats, 1508 Harvard St.; cost, $4,000.

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BUILDING INTELLIGENCE.

Peter Willer, three-st'y flats, 218 Seminary Ave.; cost, $6,000.
W. R. Griswold, 4 four-st'y flats, 15-21 Ashland Boulevard; cost, $50,000.
Edward Slatterly & Son, 2 four-st'y flats, 80-82 South Centre Ave.; cost, $13,000.
M. J. Carboy, three-st'y flats, 635-637 Ogden Ave.; cost, $8,000.
John Leibiet, three-st'y flats, 57 Beethoven Pl.; cost, $7,000.
Vaclav Horacer, two-st'y flats, 81 Spaulding St.; cost, $3,000.
A. C. Nelson, three-st'y flats, 376 West Division St.; cost, $4,500.
John Krause, three-st'y flats, 661 South Rockwell St.; cost, $3,500.
Frank Zierregal, three-st'y flats, 357 Hastings St.; cost, $3,000.
Nick Schram, 2 two-st'y flats, 1632-1634 Ashland Ave.; cost, $3,500.
H. C. Pratt, three-st'y flats, 4423 Prairie Ave.; cost, $6,000.
John Pelaiki, two-st'y flats, 635 Van Horn St.; cost, $4,000.
M. E. Coman, three-st'y flats, 3546 Ellis Ave.; cost, $6,000.
Ed. Hawle, two-st'y flats, 10 Winthrop Pl.; cost, $4,000.
A. Kaiser, two-st'y flats, 1467 Fillmore St.; cost, $4,500.
Phillip Roerig, three-st'y flats, 681 Washtenaw Ave.; cost, $4,000.
Robert Fulford, two-st'y flats, 6352 Sangemon St.; cost, $3,000.
L. P. Schriver, two-st'y flats, 906 Basil St.; cost, $4,000.
John Swallell, three-st'y flats, 8922 Erie Ave.; cost, $3,000.
William McGuire, two-st'y flats, 5831 Drexel Boulevard; cost, $6,000.
B. F. Dradburn, 2 three-st'y flats, 6352-6354 Maryland Ave.; cost, $15,000.
Ann Chittick, two-st'y flats, 1724 Fifty-ninth St.; cost, $4,000.
F. O'Conner, two-st'y flats, 3144 Parnell Ave.; cost, $3,200.
Adolph Fischer, 3 four-st'y flats, 49-55 Astor St.; cost, $50,000.
John Byrne, 2 two-st'y flats, 6319-6321 Wright St.; cost, $10,000.
W. C. Hayden, two-st'y flats, 36 Alaska St.; cost, $3,700.

CHURCHES.

Baltimore, Md. — Park Presbyterian Chapel will build two-st'y stone church, to cost about $15,000, n w cor. North and Madison Aves.

Brooklyn, N. Y. — *Lorimer St.*, s w cor. Stagg St., brick church, tin roof; cost, $15,000; owner, German Methodist-Episcopal Church, Lorimer and Stagg Sts.; architects, C. L. Johnson & Co., 322 Rodney St.
Bushwick Ave., n w cor. De Kalb Ave., brick church, tin roof; cost, $57,000; owners, Trustees Epworth Methodist-Episcopal Church, on premises.

Camden, N. J. — *Ninth St.*, n Ferry Ave., frame church; builder, Charles Johnson.

Chicago, Ill.—Congregation of B'nai Israel, church, Aberdeen and Sixty-second Sts.; cost, $3,600.

Clifton Forge, Va. — The Baptists contemplate building church, to cost about $15,000.

Crisfield, Md. — Mt. Pleasant M. P. Church will build brick and stone church, to cost about $10,000.

Philadelphia, Pa.—*Sixteenth and Oxford Sts.*, two-st'y church; builders, Milnor & Co., Frankford.

Somerville, Mass. — *Broadway*, cor. Clarendon Ave., frame church for St. James Parish; builder, W. L. Dodge.

FACTORIES.

Brooklyn, N. Y.—*Seventh St.*, s s, 175′ w Third Ave., four-st'y brick factory, gravel roof; cost, $10,000; owner, Mr. Weisner, on premises; architect, Carl F. Eisenach, 58-61 Court St.
First Ave., n w cor. Fifty-third St., three-st'y brick factory, tin and gravel roof; cost, $20,000; owners, Projectile Co., Fifty-third St. and First Ave.; architect, Wm. B. Tubby, 83 Fulton St., New York City.

BUILDING INTELLIGENCE.

Chicago, Ill. — Simonds Mfg. Co., three factories, Seventeenth St. and Western Ave.; cost, $45,000.
Mrs. Fannie Weinberg, two-st'y factory, 733-735 Thirty-seventh St.; cost, $5,000.

Philadelphia, Pa. — *Bread St., Nos.* 228 280, three-st'y brick factory; builder, Charles P. Nesbitt, 425 Locust St.
Plans have been completed for a six-st'y brick and stone factory for Hensel, Colladay & Co. on the site of the First Moravian Church and the carousel of J. R. Applegate.
Trenton Ave., s s, s Tioga St., two-st'y brick factory; builders, William Steele & Son, 506 Walnut St.
Seventh St., w s, n Carpenter St., four-st'y brick factory; owners, J. S. Cornell & Son, 1917 Woodstock St.

HOTELS.

Chicago, Ill. — Hotel Epworth, four-st'y hotel, 5830-5856 Monroe Ave.; cost, $53,000.
The Midway Plaisance Co., six-st'y hotel, Sixtieth St. and South Park Ave.; cost, $200,000.

HOUSES.

Boston, Mass. — *Thetford St.*, near Evans St., Ward 24, frame dwell., gambrel roof, 27′ x 35.10′; owner, J. P. Kerlaw; builder, F. H. Randlett.
Spring St., near Baker St., Ward 23, frame dwell., 27′ x 36′; owner, E. P. Morrill; builder, W. S. Mitchell.
Westford St., near Raymond St., Ward 25, frame dwell., hip roof, 26′ x 31′; owner, Peter Waldberg; builder, T. W. Brennan.
Sydney Place, near Waterloo St., Ward 24, frame dwell., 24′ x 36.6′; owner, H. Bishop; builder, J. E. Bishop.
Centre St., cor. Samoset St., Ward 24, two frame dwells., 21.6′ x 38.6′; owner, G. E. Bridgham; builder, C. A. Dearborn.
Samoset St., near Centre St., Ward 24, four frame dwells., 20.6′ x 35′; owner, G. E. Bridgham; builder, C. A. Dearborn.
Chapman Ave., opp. Birch St., Ward 24, four frame dwells., 24′ x 43′; owner, B. H. Azuire; builder, Hugh Murray.
Chapman St., near Birch St., Ward 24, four frame dwells., 22′ x 40′; owner, S. A. Tucker Estate; builder, P. Rockwell.
Border St., Nos. 339-362, Ward 1, 4 three-st'y frame dwells., flat roofs, 20′ x 34′; owner and builder, G. W. Hargrave.
Howard Place, near Howard Ave., Ward 20, frame dwell., 24′ x 46′; owner and builder, C. Bouttenhouse.
Ballard St., near Custer St., Ward 23, frame dwell., 24.6′ x 48.6′; owner, T. Duffy; builder, J. Landry.
Monroe Terrace, off Pope's Hill St., Ward 24, four frame dwells., 34′ x 36′, 33′ x 35′, 30.6′ x 47.2′; owners and builders, Spooner & Smith.

Brooklyn, N. Y. — *Carroll St.*, n s, e Henry St., four-st'y brick dwell., tin roof; cost, $11,000; owner, Wm. Hart, Hicks St. and Atlantic Ave.; architect, Charles Werner, Garfield Building.
Hopkins St., No. 16, two-st'y brick dwell., tin roof; cost, $3,500; owner, Mr. Holt, on premises; architects, Parker & Ryan, 329 Franklin Ave.
Jefferson Ave., s s, 185′ w Howard Ave., 5 two-st'y brick dwells., tin roofs; cost, $4,000 each; owner, architect and builder, D. McDicken, 1975 Fulton St.
Macon St., s s, 278′ e Ralph Ave., 3 two-st'y brick dwells., tin roofs; total cost, $13,000; owner and architect, John R. Pitt, 297 Stuyvesant Ave.
Macon St., s s, 332′ e Ralph Ave., 2 two-st'y brick dwells., tin roofs; total cost, $9,000; owner and architect, John R. Pitt, 297 Stuyvesant Ave.
Third St., s s, 125′ w Marcy Ave., 3 four-st'y brick dwells., tin roofs; cost, $7,000 each; owner and builder, Emil Lehman, 321 South Third St.; architect, Th. Engelhardt, 905 Broadway.
Forty-seventh St., s s, 120′ e Fifth Ave., two-st'y brick dwell., tin roof; cost, $3,000; owner, architect and builder, A. Klam, 118 Forty-second St.
Lorimer St., 75′ w Stagg St., two-st'y brick dwell., tin roof; cost, $5,000; owner, German Methodist-Episcopal Church, Lorimer and Stagg Sts.; architects, C. L. Johnson & Co., 322 Rodney St.
Prospect Place, s s, 245′ e Vanderbilt Ave., 3 two-st'y brick dwells., tin roofs; cost, $4,500 each; owner and architect, Wm. L. Beers, 123 Albany Ave.

Camden, N. J. — *Lewis St.*, s w cor. Mechanic St., two-st'y brick dwell.; owner, Louis Parris, 207 North Ninth St., Philadelphia.
Berkeley St., w s, below Seventh St., 5 three-st'y brick dwells.; owner, George Holl.
Benson St., No. 570, two-st'y brick dwell.; owner, Charles Johnson.
Liberty St., s s, near Mt. Ephraim Ave., two-st'y brick dwell.; owner, Isadore Green.
Kaighn's Ave., w s, near Haddon Ave., 2 two-st'y brick dwells.; owner, Isadore Green.
Federal St., No. 762, brick dwell.; owner, R. M. English.

Germantown, Pa. — Plans have been made for 7 three-st'y press-brick dwells.; architect, Herbert P. Onyx, 14 South Broad St., Philadelphia.

Philadelphia, Pa. — *Otto St.*, w s, s Chelten Ave., 2 three-st'y brick dwells.; builder, Albert Hamilton, Chelten Ave. and Freiss St.
Second St., w s, n Lehigh Ave., three-st'y brick dwell.; builder, John Mitchell, 807 West Lehigh Ave.
Bristol Pike, w s, n Ashbruner St., 2 three-st'y brick dwells.; owner, Michael Kilcoyne, Holmesburg.
Eleventh St., w s, n Diamond St., 2 three-st'y brick dwells.; builder, Robert Buchanan, 2025 North Twenty-second St.
Pine St., s s, w Broad St., two-st'y brick dwell.; builder, Charles R. Jordan, 1535 Pine St.
Fuller St., s s, w Morris St., three-st'y brick dwell.; builder, Benjamin Walker, 3953 Germantown Ave.
Ontario St., s s, w Twentieth St., three-st'y brick dwell.; builder, Benjamin Walker, 3953 Germantown Ave.
Baring St., n s, w Preston St., 11 three-st'y brick dwells.; owner, Benjamin D. Gardiner, Manheim St., below Pulaski Ave.
Pentridge St., s s, w Fiftieth St., two-st'y brick dwell.; owner, Patrick Hurley, 1815 Wilder St.
Mt. Airy Ave., e s, s Bryant St., 3 two-st'y brick dwells.; builder, Isaac K. Pierson, 5660 Germantown Ave.
Pepper St., s s, w Cedar St., 7 two-st'y brick dwells.; builder, A. Benner, 3157 Richmond St.
Preston St., w s, n Baring St., 3 three-st'y brick dwells.; owner, Benj. D. Gardiner, Manheim St., below Pulaski Ave.

MISCELLANEOUS.

Chicago, Ill. — Pennsylvania Co., two-st'y powerhouse, Madison and Canal Sts.; cost, $10,000.

(*Continued on page* xx.)

RARITAN CATALOGUES

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PROPOSALS.

LIBRARY BUILDING. **At Richmond, Va.**

COMMONWEALTH OF VIRGINIA,
OFFICE OF THE STATE BOARD OF BUILDING COMMISSIONERS,
STATE CAPITOL, RICHMOND, August 26, 1892.

Sealed proposals will be received at this office **until 12 o'clock M. September 26, 1892,** for the erection and completion of the State Library Building at Richmond, Va. Plans, specifications and "General Instructions to Bidders" may be seen at the office of the architect, W. M. Poindexter, 1320 F Street, Washington, D. C., and at this office on and after August 29, 1892.

No bid will be considered unless accompanied by a certified check for $5,000, made payable to the president of the State Board of Building Commissioners as a security for the execution of a contract for the work, with a bond in the penalty of $50,000. The Board reserves the right to reject any and all bids.

P. W. McKINNEY, Governor of Virginia
and President of the State Board of
873 Building Commissioners.

Treasury Department, Office Supervising Architect, Washington, D. C., August 24, 1892. Sealed proposals will be received at this office until two o'clock, P. M. on the 20th day of September, 1892, and opened immediately thereafter, for all the labor and material required for the approaches to the United States Court-house and Post-office building at Asheville, N. C., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent at Asheville, N. C. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Approaches for United States Court-house and Post-office building at Asheville, N. C.," and addressed to W. J. EDBROOKE, Supervising Architect. 872

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PROPOSALS.

Proposals for Dredging. United States Engineer Office, Mobile, Ala., August 27, 1892. Sealed proposals for dredging in Mobile Harbor, Ala., Biloxi Bay, Miss., and Pascagoula River, Miss., will be received at this office until 12 M. Wednesday, the 28th day of September, 1892, and opened immediately thereafter in presence of bidders. Specifications, general instructions to bidders and blank forms of proposals will be furnished on application to this office. The attention of bidders is invited to the Acts of Congress approved February 26, 1885, and February 23, 1887, Vol. 23, Page 332, and Vol. 24, Page 414, Statutes at Large. A. N. DAMRELL, Major of Engineers, U. S. A. 872

Treasury Department, Office Supervising Architect, Washington, D. C., August 22, 1892. Sealed proposals will be received at this office until 2 o'clock P. M., on the 15th of September, 1892, and opened immediately thereafter, for all the labor and materials required for furnishing and fixing in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Custom-house, Post-office and Court-house building at El Paso, Texas, in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at El Paso, Texas. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, or to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals must be enclosed in envelopes sealed and marked "Proposal for the Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Custom-house, Post-office and Court-house at El Paso, Texas," and addressed to W. J. EDBROOKE, Supervising Architect. 871

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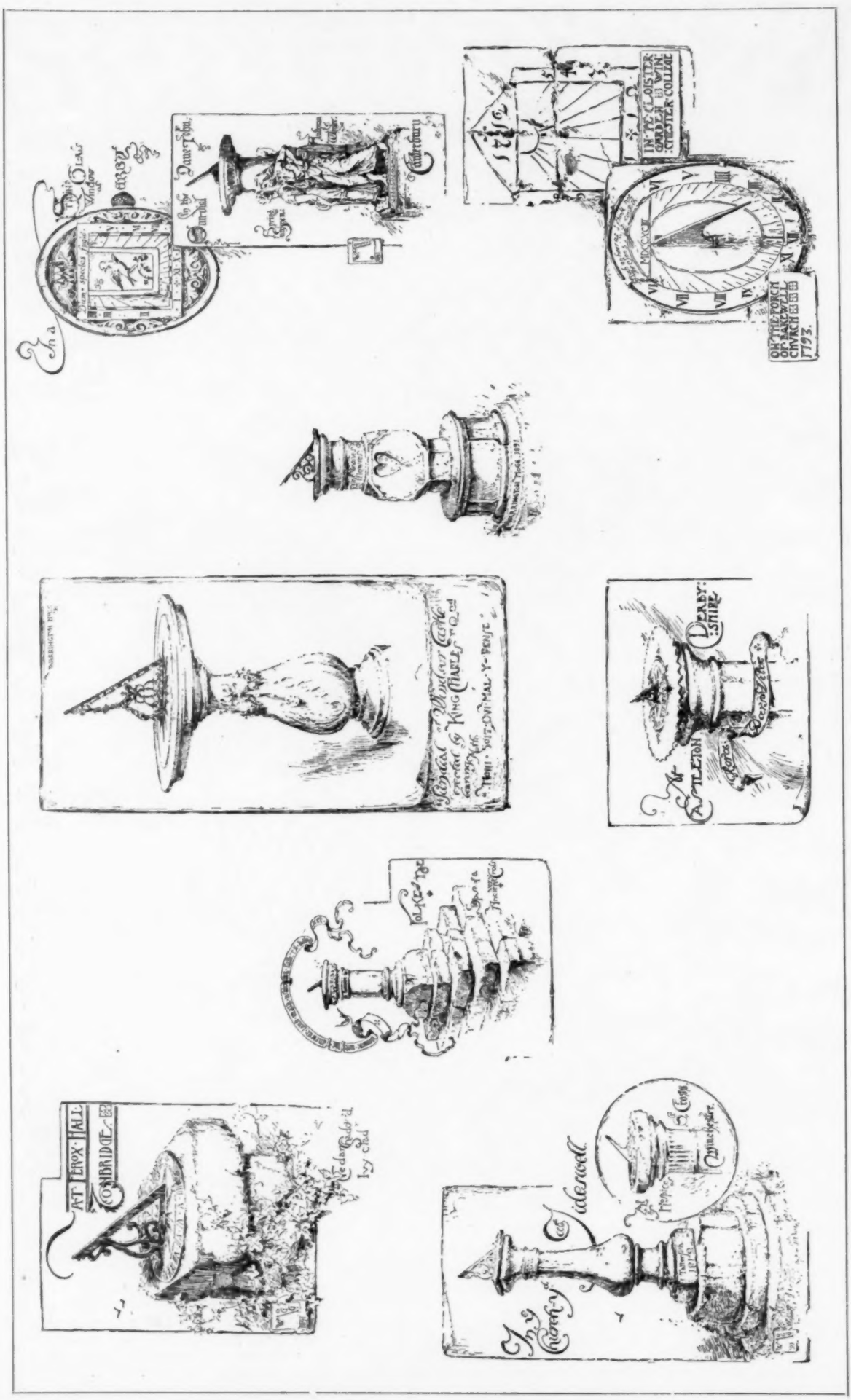
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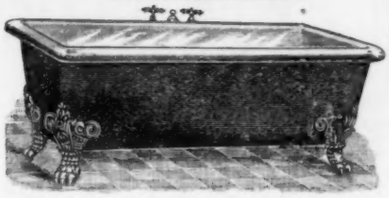

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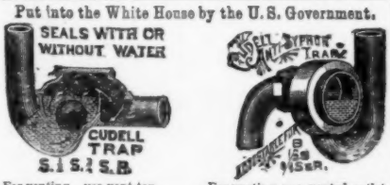

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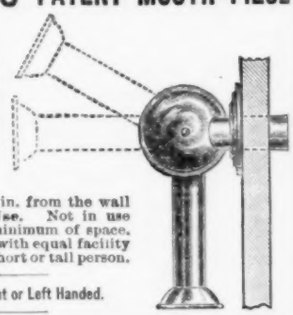

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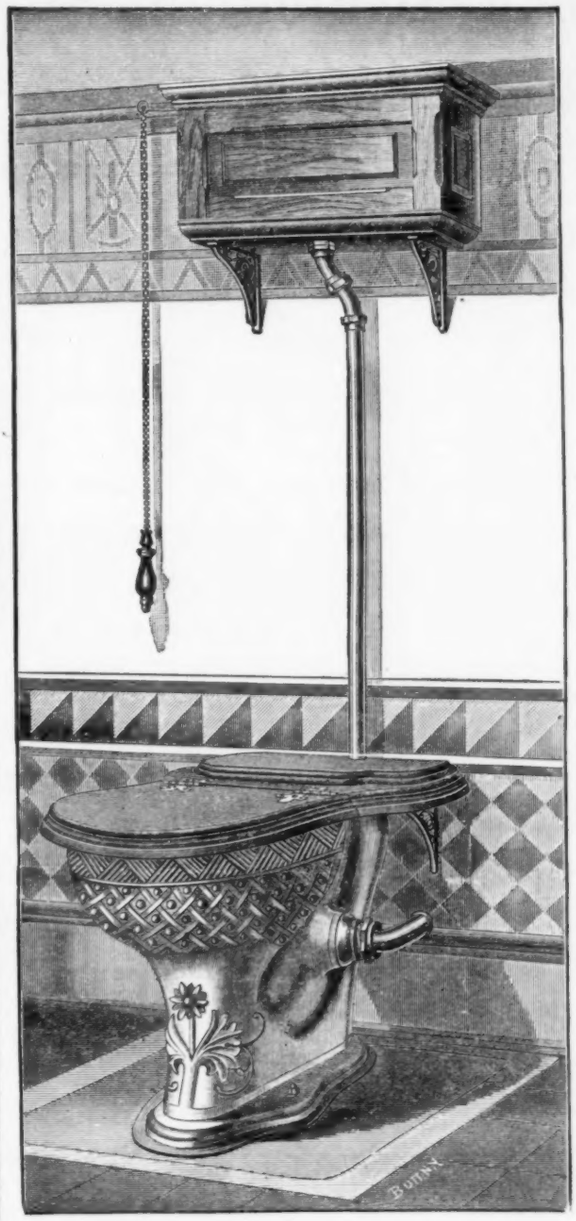

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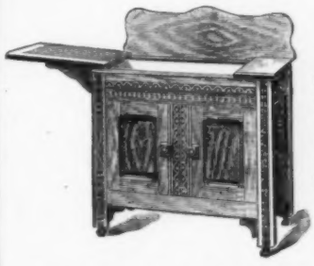

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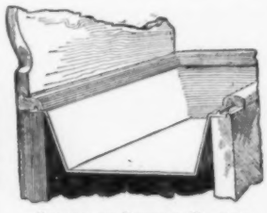

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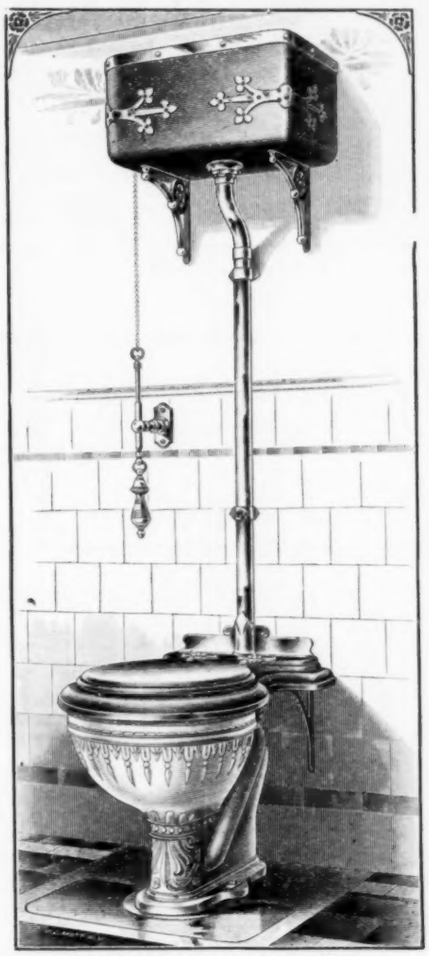

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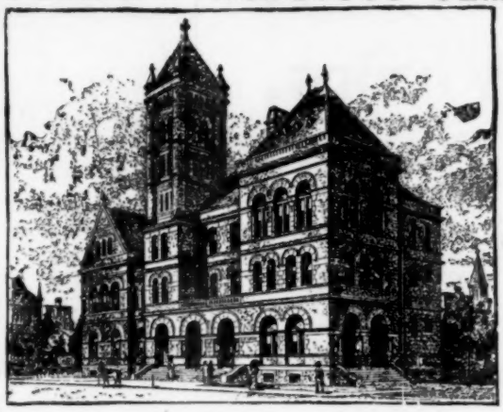

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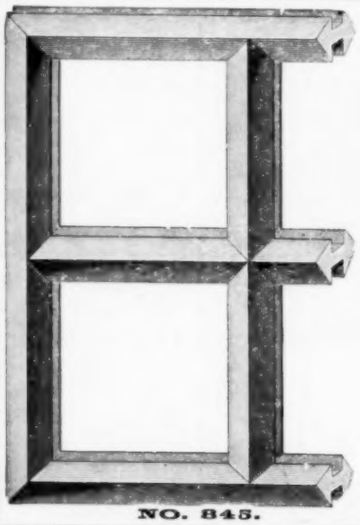

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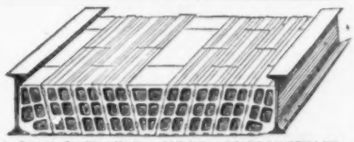
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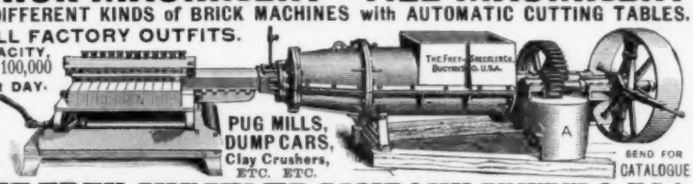

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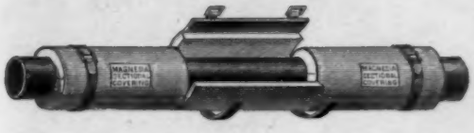

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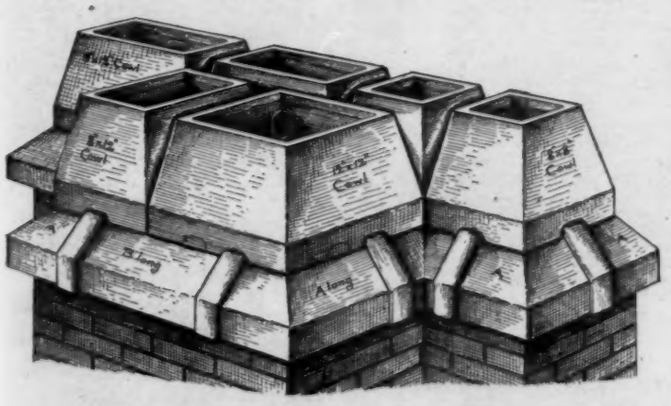

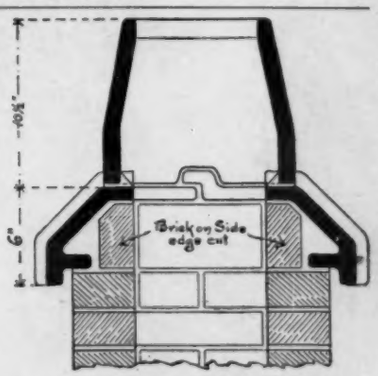

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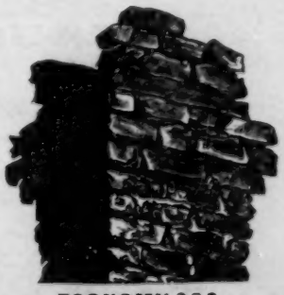

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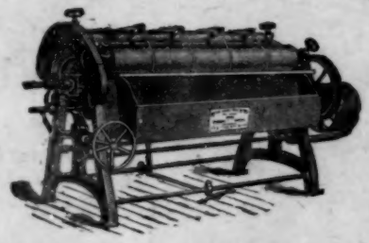

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Japanned.	Pair.		2 to 3	2½ to 3½	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8
Flanges - - -	Inch	3½	4	5	6	7	9	10
Pivots Asst.	per	9 70	90	1 10	1 40	1 75	2 50	3 80
Pivots "	pair	1 40	1 75	2 20	2 80	3 50	5 00	7 00

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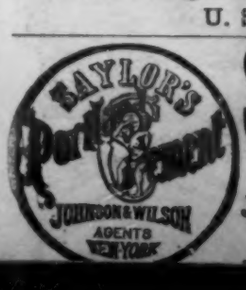

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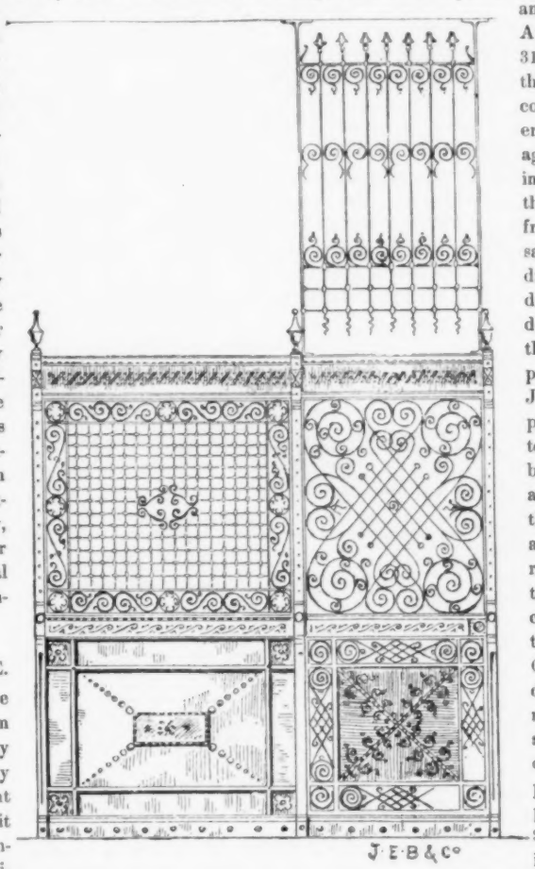
The American Architect and Building News

ADVERTISERS' TRADE SUPPLEMENT.

No. 123. SATURDAY, SEPTEMBER 3, 1892. Volume XXXVII. No. 871.

ARTISTIC ELEVATOR INCLOSURES.

J. E. Bolles & Co., Detroit, Mich., have recently brought out some new and attractive designs for elevator inclosures, a view of one of their designs being shown in the accompanying illustration. There seems to be a growing demand for fine work for inclosing elevators. The patterns must be artistically executed according to new and original designs, and the work finished in the highest state of the art in order to satisfy the popular requirements. In order to meet these demands the above firm are giving special attention to artistic work from new and original designs for elevator enclosures, cabs, etc. They have recently published catalogue No. 11 which contains many new designs in the above line, also bank work, steel grilles, iron stairs, etc., etc. All parties interested will do well to send for this catalogue. They state that they are now filling a large order for the elevator inclosure and stair railing for W. P. Callahan's elegant eight-story office-building at Dayton, Ohio — Williams & Otter, Architects. Also have just shipped a car-load of iron stairs for the Stevensville Court-House, Texas — Gordon & Laub, Architects, San Antonio. A complete set of bank fixtures for the State Bank of Perry, Mich., besides various contracts for bank-work, grilles and architectural ironwork from all parts of the country.



OTHER USES FOR GRAPHITE.

A Correspondent says: I have read an article on graphite taken from the *American Machinist*. Let me say that I have used graphite for many purposes, some that the correspondent did not name, which I will give as it may benefit some of my brother engineers, who perhaps have not experimented to any great extent with the article. I have used hand-hole and man-hole gaskets eight to ten times by carefully smearing the surface next boiler shell, taken out at periods of three to four weeks, using steam pressure as high as 100 pounds. In packing water-glasses, by putting a little graphite and oil on the gasket they would vulcanize as soft as lamp-wick and retain their elasticity until the glass was changed, when the old rubber could be removed without trouble, while by the old way, I have spent much time in digging out the rubber, baked hard as vulcanite. Another thing I used it for was after putting back my hand-hole plate or plugs in back connection, I carefully brush away all the soot and ashes, then with a small brush paint a good coat of graphite over flange, stud and nuts. After running boiler from three to six months, and using coke for fuel, with forced draught, the nuts can be removed without trouble as the heat has not been great enough to burn the lead.

THE VALUE OF COVERING STEAM PIPES.

In the Michigan Engineer's *Annual*, which is a report of the proceedings of the Michigan Engineering Society, of January, 1889, Prof. M. E. Cooley, M. E., of Ann Arbor, gives the following report of his experience as to the value of covering steam pipes:

"The benefit of covering Steam Pipes to prevent radiation is strikingly illustrated by the following example: The Thomson-Houston Electric-Light Plant in Ann Arbor has about 60 feet of 7-inch pipe connecting the boilers with the engines and two large steam-drums above the boilers. In March, 1887, the steam at the far end of this pipe was tested to determine the amount of entrained water, the pipes and drums at the time being uncovered. An average of nine experiments gave 31.01 per cent moisture. In June of the same year, after the pipes were covered with Magnesia Sectional Coverings, the quality of the steam was again tested, the average of five experiments giving 3.61 per cent moisture; the tests were made by the same men from the same connections, and in the same manner. The pipes and steam-drums in March were subjected to a draught, which, of course, aided the condensation. Enough water passed into the cylinders to retard the engines, producing a disagreeable noise. In June the weather was warmer and the pipes and steam-drums were well protected. The quality of steam at the boilers was tested in June, and showed about 3 per cent moisture. Assuming that 100 I. H. P. were being developed at the time, and that each horse-power required 30 pounds of steam, then, if the steam is assumed to have 25 per cent entrained water due to condensation in the pipes and connections, 4,000 pounds steam will need be produced in the boilers, or 1,000 pounds more than necessary. To produce this steam will require about 125 pounds of good coal per hour, or 1,000 pounds per day of eight hours. One-half ton per day, at $3.00 per ton for 300 days $450, which, at six per cent, pays the interest on $7,500. The actual cost of the covering put on complete probably did not exceed $150."

For estimates or other information address the Local Agencies.

THE MAGNESIA SECTIONAL COVERING CO.,
AMBLER, PENNSYLVANIA.

GILBERTSON'S OLD METHOD ROOFING TIN.

Probably nothing in which the architect is called upon to decide for his client's interest

is more puzzling at times than to decide as to the brands of Roofing Tin when all are so energetically pushed; but at the head of the list in quality still stands the Gilbertson's Old Method, and its remarkable success attained alone by its excellence justifies its position. The present American agents yield to none in their patriotic desire to encourage domestic manufacture; but the existing condition of high grade Roofing Plates is analogous to that formerly occupied by Russia Sheet Iron. Some ten or fifteen years ago a firm of sheet iron manufacturers in Pittsburgh, possessing ample capital and remarkable mechanical ability, commenced the manufacture of this article and they have now a monopoly of the American trade, scarcely any of the foreign iron being sold; but in the beginning, no cautious architect would in justice to his clients have specified for high-class work this American Iron, because he would have rightly said that in its infancy the American Iron should only be used upon cheaper classes of work, and for the best work the architect would have waited until the goods had stood that most desirable test for any building material, that of time. This test no American Roofing Plate has yet stood, and pending such result, undoubtedly the Gilbertson's Old Method will still be used where the best is desired; and this without any desire to reflect upon the quality of the American product. Especially will this be done when Messrs. E. S. Wheeler & Co. call attention to the fact that a roof 40 x 50 costs only about $40 more covered with the Gilbertson's Old Method than the cheapest Roofing Plate that can be secured.

E. S. WHEELER & CO.,
New Haven, Conn.

BOILER PITTING CURED BY GRAPHITE AND OIL.

In the *American Machinist* of July 28, Mr. T. T. Parker, has a very interesting column article regarding pitting in boilers. Besides some clever theories, he has this to say from a practical point of view: "In a boiler of the porcupine persuasion pitting was found in the mud-drum. Acting under advice, the drum was cleaned and scraped, after which it was painted with graphite mixed with cylinder oil. Measurements of the depths of the pits were taken, and six months after they were found no deeper, and no new ones had shown up. Other parties have since tried this experiment in mud-drums, but it is too early as yet to give the result. However, knowing the character of plumbago, if the interior of a boiler could be painted with it in such a way that it would stay, it may be this would prove a remedy. I am satisfied also that the person doing so would kill two birds with one stone, as the scale would be easily detached. In a pair of cylindrical boilers 42 x 28, occasional applications of cylinder oil (mineral) and plumbago has kept back corrosion on a trial of six months. Boilers were new when plumbago was used. The boilers which the new ones replaced were thrown out rotten from corrosion. The feed was mine water as nothing else could be had."

In addition to Mr. Parker's remarks we add that, Messrs. Harig, Koop & Co., Louisville, Ky., after experiencing more or less trouble from rust and scale in the mud-drums of their boilers, applied with great success graphited oil, purchased from the Joseph Dixon Crucible Company, Jersey City. The mud-drums were cleaned out and the graphited oil applied with swab, brush or anything handy to the joints and parts where the water enters the drums. Every four or six weeks this process is repeated with the most gratifying results.

JOSEPH DIXON CRUCIBLE CO.,
Jersey City, N. J.

NOTES.

One of the 150 "model houses" comprising the town being built by D. H. King, Jr., in Harlem, has been selected by Mr. King for his own residence. The woodwork on two of the floors is polished out in rock finish, the other two are finished in the DeGolyer Rock Enamel Paint, one in "white" and the other in "ivory." The work is beautifully done and reflects great credit on both the material used and the workmanship. Both painting and varnishing were in charge of Mr. I. G. Howell, the well-known master-varnisher, who has the finishing of the entire town of 150 residences. The fine enamel work in Mr. King's house will add greatly to Mr. Howell's reputation as a master-workman. The Rock Enamel Paint and Varnish is gaining a great reputation and bids fair to be as popular with the trade as the DeGolyer Rock Finishes.

The attention of owners of buildings, architects and builders is respectfully called to the advertisement of the Standard Smoke Consumer Company, 54 Lincoln Street, on another page of this journal. The recent passing of an ordinance in Boston requiring a Smoke-Consuming Device to be put on every boiler burning bituminous coal in the city has awakened an inquiry as to the different devices obtaining such a result and which one is doing the work required. The Standard Company invite an inspection of their device and its application to boilers at their office as above and refer to the well-known representative houses for the results obtained. The testimonials received show that the Company is doing all they claim in abating the smoke nuisance as well as showing an economy in fuel.

BUILDING INTELLIGENCE.

Reported for the American Architect & Building News.

HOUSES.

Baltimore, Md. — Jos. G. C. Johnson, three-st'y brick building, s w cor. Amity and Raborg Sts.

D. G. Bockelman, 5 two-st'y brick buildings on Glynden Ave., near Carey St.

A. K. Wood, 25 two-st'y brick buildings, e s Barclay St., n e cor. Camp St.

Rev. Mr. Jordan, three-st'y brick building, s w cor. Hudson St. and Eastern Ave.

Slonaker & Ames, 13 three-st'y brick buildings, s s Edmondson Ave.; 14 two-st'y brick buildings, n s White St., e Payson St.; and three-st'y brick building, n e cor. Payson and White Sts.

Philip Lydecker, 3 two-st'y brick buildings, e s Stinson St., w Garrison Lane.

Boston, Mass. — *Aldrich St.*, near Berry St., Ward 23, frame dwell., 21′ x 27′; owner, Catherine Heinsel; builder, E. Heinsel.

Farrington St., near Anawan Ave., Ward 23, frame dwell., 23′ x 41′; owner, E. H. Ayers; builder, W. A. McLeod.

Franklin St., near North Harvard St., Ward 25, two frame dwells., 20′ x 40.2′; owner, Mrs. C. M. Weiss; builder, W. P. Jenkins.

Virginia St., near Dudley St., Ward 20, frame dwell., 30′ x 44′; owner, Hattie S. Rowell.

Washington St., No. 2632, Ward 21, three-st'y frame dwell. and store, flat roof, 25′ x 46; owners, John and Sarah Burchill; builders, McNeil & McLean.

Perham St., near Winslow St., Ward 23, frame dwell., 16′ x 32′; owner, H. W. French; builder, G. A. Spear.

Harvard St., near Bernard St., Ward 24, frame dwell., hip roof, 39′ x 38.6′; owner, Henry Brown, builder, J. A. Leslie.

Algonquin St., near Washington St., Ward 24, frame dwell., 28′ x 36′; owner, Elizabeth A. Chandler; builder, Daniel Squire.

Menlo St., near Sparhawk St., Ward 25, frame dwell., 26′ x 34′; owner, Mrs. L. Wormell; builder, J. A. Dooley.

Ballard Way, near Jamaica St., Ward 23, frame dwell., 23′ x 39′; owner, Mary McCarthy.

Goldsmith St., near Custer St., Ward 23, three-st'y frame dwell., flat roof, 25′ x 45′; owner, P. F. Ashmore; builder, J. F. Sullivan.

Atherton St., cor. Armory St., Ward 23, frame dwell., hip roof, 25.6′ x 34′; owner, R. S. Barrows; builder, J. P. Campbell.

James St., near Poplar St., Ward 23, two frame dwells., 20′ x 28′; owner and builder, L. Seldner.

Poplar St., off Brown Ave., Ward 23, three-st'y frame dwell., flat roof, 23′ x 42′; owner, M. H. Flanagan; builder, J. M. Kelley.

Posen St., near Arklow St., Ward 22, three-st'y frame dwell., flat roof, 26′ x 40.4′; owner, Owen Nawn; builder, A. McDonald.

Smith St., near Whitney St., Ward 22, three-st'y frame dwell., flat roof, 24.6′ x 46′; owner, Maria Reed.

James St., near Poplar St., Ward 23, frame dwell., 20′ x 28′; owner and builder, L. Seldner.

Forest Hill St., near Peter Parley Road, Ward 23, frame dwell., 20′ x 49′; owner, W. E. Meyer; builder, G. A. Cahill.

Bennington St., No. 159, Ward 1, frame dwell., 20′ x 30′; owner, E. P. Sanderson; builder, T. F. Brown.

East Broadway, No. 587, Ward 14, 2 three-st'y frame dwells., flat roofs, 25′ x 72′ and 22′ x 73.9′; owners, J. A. Drown and M. J. Driscoll; builder, W. T. Eaton.

Chelsea St., cor. Marion St., Ward 1, three-st'y frame dwell. and store, flat roof, 24.6′ x 50′; owner, J. E. Bennett.

Centre St., near Merlin St., Ward 23, frame dwell., 28′ x 32′; owner, J. H. Finch; builders, McAuley & Waller.

Private Way, off Pond St., near Rockwood St., Ward 23, frame dwell., 38.4′ x 43.2′; owner, H. L. Harding; builder, J. M. E. Morrill.

Rutledge St., cor. Wren St., Ward 23, two frame dwells., 36.6′ x 40′; owner, Eleanor M. Atwood; builder, C. A. Russell.

Eldon St., cor. Mt. Bowdoin Terrace, Ward 24, frame dwell., 28.3′ x 44′; owner, Mrs. A. C. Gallison; builders, Alcock & McKay.

Nightingale St., near Bernard St., Ward 24, two-st'y frame dwell., hip roof, 31.6′ x 54′; owner, Mary A. Lindsay; builder, H. J. Rice.

Centre St., near Washington St., Ward 24, frame dwell., 27.7′ x 40.6′; owner, Mrs. S. L. Boardman; builders, Whittaker & Gerrish.

Farrington St, near Kenneth St., Ward 23, frame dwell., 25′ x 42′; owner, E. H. Ayers; builder, W. A. McLeod.

Birch St., near Corinth St., Ward 23, three-st'y frame dwell., pitch roof, 21′ x 32.6′; owner, J. B. Heibner; builder, T. E. Piecott.

Philadelphia, Pa.—*Palmer St.*, w s, n Belgrade St., two-st'y brick dwell.; builders, James McCauley & Sons, 1328 East Montgomery Ave.

Hagerman St., w s, n Rushton St., two-st'y brick dwell.; builders, W. Milnor & Co., Penn and Allen Sts.

Wakeling St., w s, n Willow St., two-st'y brick dwell.; builder, W. J. Mitchell, 4345 Worth St.

Orkney St., w s, s Somerset St., two-st'y brick dwell.; builder, Charles Roth, 432 Huntingdon St.

Howarth St., s s, w Cedar St., two-st'y brick dwell.; builders, Markley & Beran, 4260 Penn St.

North Fifth St., No. 2751, three-st'y brick dwell.; builder, Charles Roth, 432 Huntingdon St.

Worth St., s s, w Orthodox St., two-st'y brick dwell.; builder, Thomas Rush, 4938 Mulberry St.

Somerville, Mass. — *Richdale Ave.*, cor. Sycamore St., frame dwell.; owner, Annie L. Fletcher.

Harrison St., frame dwell.; owner, J. G. Poingester; builder, Patrick Keating.

Porter St., cor. Mountain Ave., frame dwell., 25′ x 37′; owner and builder, W. L. Glidden.

Cottage Ave., two double frame dwells., each 27′ x 47′; owner, H. G. O. Bowers; builder, John H. Stevens.

Robinson St., frame dwell., 25′ x 30′; owners and builders, S. & C. H. Williams.

Campbell Park, frame dwell., 25′ x 42′; owner and builder, E. B. Warren.

Wheatland St., frame dwell.; owner, T. Barnard; builder, George E. Ricker.

Lawrence St., frame dwell.; owner, John Fanning.

Adrian St., frame dwell.; owner and builder, Thomas Colley.

Beacon St., block of frame dwells.; owner, Patrick Quain; builders, Paterson & Fox.

Cypress St., near Central St., two frame dwells., 23′ x 28′ and 26′ x 47′; owner, H. W. P. Colson; builder, W. A. Young.

Appleton St., No. 24, frame dwell., 23′ x 30′; owner and builder, T. C. Connor.

Hancock St., frame dwell., 24′ x 28′; owner, Thos. Gurnham; builder, William Eastman.

Worcester, Mass.— *Cambridge St.*, three-st'y frame dwell.; owner, Owen Gillchrist; contractor, J. A. McDermott.

Lamartine St., four-st'y frame dwell.; owner and contractor, John Rivard; architect, George H. Clemence.

Kilby St., two-st'y frame dwell.; owner, Charles W. Estabrook; contractor, George M. Hubbard; architects, Barker & Nourse.

Winfield St., three-st'y frame dwell.; owner, Mrs. Rosanna Butler; contractor, T. M. Anderson.

Clegg St., one-and-one-half-st'y frame dwell.; owner, Wm. Marsden; contractor, J. J. Bebeau.

Plantation St., two-st'y frame dwell.; owner and contractor, R. Beaudette.

Plantation St., two-st'y frame dwell.; owner, Dennis Twombly; contractors, Belisle & Maynard; architect, George H. Clemence.

Orchard Ave., one-and-one-half-st'y frame dwell.; owners and contractors, Page & Lowe, Clinton, Mass.

Milton St., three-st'y frame dwell.; owner, Pat Power; contractor, Wm. Power.

SCHOOL-HOUSES.

Meridian, Miss. — It is reported that the Baptists will build a college building, to cost about $50,000.

WAREHOUSES.

Brooklyn, N. Y. — *Schermerhorn St.*, n s, 200′ e Nevins St., nine-st'y brick storage warehouse, concrete, asphalt and tile roof; cost, $490,000; owner, Brooklyn Warehouse and Storage Co., 32 East Forty-second St., New York City; architect, Wm. B. Tubby, 81 Fulton St., New York City.

Chicago, Ill.—G. F. Kimball, twelve-st'y warehouse, 442-450 Wabash Ave.; cost, $15,000.

H. C. Durand, six-st'y warehouse, 110-114 West Lake St.; cost, $35,000.

David Bradley, six-st'y warehouse, 55-59 North Jefferson St.; cost, $60,000.

Robert Walsh, four-st'y storage warehouse, 73-75 East Twenty-sixth St.; cost, $12,000.

Philadelphia, Pa.—*Front St.*, w s, n Arch St., four-st'y brick warehouse; builders, Wm. Steele & Son, 506 Walnut St.

Twenty-first St., e s, s Jefferson St., four-st'y warehouse; builders, J. S. Cornell & Son, 1919 Woodstock St.

MISCELLANEOUS.

Baltimore, Md.—The Sisters of Notre Dame will build three-st'y brick building, e s Aisquith St., bet. Eager and Chew Sts.

The Drovers' and Mechanics' Bank will build bank-building, n w cor. Eutaw and Fayette Sts., to cost about $150,000.

The Y. W. C. A. will build three-st'y brick building, n e cor. Park Ave. and Franklin St.

Boston, Mass. — *Bristol St.*, near Albany St., Ward 16, five-st'y brick building, flat roof, for Fire Department Headquarters; owner, City of Boston; builders, Hosea Dodge & Co.

Poplar St., near Washington St., Ward 23, frame mercantile building, flat roof, 25.3′ x 32′; owner, Twenty-One Associates; builder, J. H. Bryant.

Tremont St., rear, near Heath St., Ward 22, 2 four-st'y brick reformatories, pitch and hip roofs, 43′ x 65′ and 54′ x 165′; owner, House of the Good Shepherd.

Tremont St., rear, near Heath St., Ward 22, two-st'y brick wash-house, hip roof, 82′ x 84′; owner, House of the Good Shepherd.

Chelsea Bridge, near Mystic Wharf, Ward 3, one-st'y brick boiler-house, flat roof, 43′ x 67′; owners, Boston & Maine Railroad Co.; builders, Simpson & Robinson.

Chelsea Bridge, near Mystic Wharf, Ward 3, one-st'y frame grain elevator, pitch roof, 98′ x 362.6′; owner, Boston & Maine Railroad Co.; builders, Simpson & Robinson.

Centre St., No. 154, Ward 24, frame club-house, 41′ x 139.10′; for Central Athletic Club; builder, J. M. E. Morrill.

Freeport St., near cor. Mill St., Ward 24, two-st'y frame bowling alley; owner, Esther L. Robbins; builder, J. L. Simonds.

Union St., rear, near Pleasant St., Ward 24, frame clubhouse, 21′ x 36′; owner, Massachusetts Yacht Club; builder, H. W. Savage.

Chelsea Bridge, Mystic Wharf, Ward 3, one-st'y frame storage, flat roof; for Boston & Maine Railroad Company; builders, Simpson & Robinson.

Locust St., cor. Von Hillern St., Ward 24, two-st'y frame foundry, flat roof, 48′ x 150′; owner and builder, J. M. Dodge.

Brooklyn, N. Y. — *Sixth Ave.*, s w cor. Ninth St., three-st'y brick public hall, tin or slate roof; cost, $10,000; owner, Edwin P. Day, Third Ave. and Fifty-fifth St.; architect, Walter H. C. Hornum, 150 East One Hundred and Twenty-fifth St., New York City.

Christopher St., w s, 100′ s Sutter Ave., two-st'y frame tailor shop, tin roof; cost, $3,000; owner, M. Finkelstein, Christopher St.

Greene Ave., No. 262, three-st'y brick carpenter shop, gravel roof; cost, $3,800; owner and architect, W. H. Tunison, 270 Franklin St.

Porter Ave., w s, 175′ s Maspeth Ave., one-st'y iron coal shed, corrugated iron roof; cost, $4,500; owner, Equity Gas Light Co., on premises; chief engineer, W. P. Elliott, on premises.

Camden, N. J.—*Eighth St.*, above Ferry Ave., brick building; owner, Jno. Dingle.

Kossuth St., No. 1819, shop; owner, S. Bartlett, 812 Kossuth St.

Chicago, Ill. — Convent of the Annunciation, three-st'y convent, 34-38 Commercial St.; cost, $9,000.

R. E. Pratt, elevator, Seventy-sixth and Rockwell Sts.; cost, $30,000.

Chicago, St. Louis and Pacific Railroad Company, depot building, 1132 West Madison St.; cost, $9,000.

Cincinnati, O. — The Iron Casting Co., one and two st'y brick and stone foundry and office, Gest and Depot Sts.; cost, $5,500; architect, B. Baldwin.

E. Doerr & Son, four-st'y brick and stone bakery, Vine St.; cost, $9,500; architect, E. J. Rueckert.

Detroit, Mich. — W. H. Hollands & Son, brick manufactory, 915-922 Humboldt Ave.; cost, $10,000.

Julien & Co., three-st'y brick manufactory, 210-212 Sixth St.; cost, $5,000.

S. F. Hodge & Co., brick manufactory, 306-313 Atwater St.; cost, $18,000.

Topping & Fisher, hook-and-ladder house, 287 Dix Ave.; cost, $14,000.

Dunkirk, N. Y.—Three-st'y brick and stone society building for St. Mary's Lyceum; architect, W. H. Archer, 13 West Huron St., Buffalo, N. Y.

Montreal, Can.—*De Lorimier Ave.*, brewery; owner, John Labatt, London, Ont.; architects, Roy & Gauthier, 180 St. James St.

Shaw St., foundry and machine-shop; owners, J. Laurie Bros.; architect, W. McLea Walbank, 214 St. James St.

New York, N. Y. — *Pier* 59, *N. River*, one-st'y iron freight storage shed; cost, $30,000; owner, Jefferson Hogan, 35 Broad St.; architect, R. P. Staats, 29 Broadway.

Rivington St., No. 226, six-st'y brick workshop, tin roof; cost, $5,000; owner, Louis Aaron, 34 Second Ave.; architects, Horenburger & Straub, 122 Bowery.

North Tonawanda, N. Y. — Four-st'y brick and stone society building for the Young Men's Christian Association; cost, $45,000; architect, W. H. Archer, Buffalo, N. Y.

Philadelphia, Pa.—*Thirty-fifth St.*, s w cor. Powelton Ave., one-st'y hot-house; builder, S. M. McConsey, 4059 Mt. Vernon St.

Lancaster Ave., w s, n Hamilton St., two-st'y shops; builder, M. J. McCloskey, Union St. and Haverford Road.

Chelten Ave., s s, e Cedar Lane, three-st'y smoke house; builder, Geo. Hearst, 427 School Lane.

Delaware Ave., w s, n Moore St., one-st'y brick boiler-house; owner, Baugh & Sons, 20 South Delaware Ave.

South Fifty-seventh St., one-st'y storehouse; owners, B. & O. R. R. Co. and A. M. Slack, Twenty-fourth and Chestnut Sts.

Jefferson St., e s, s Pechin St., two-st'y smoke house; builder, Frank Gillett, 200 Ripka Ave.

Race St., s s, one-st'y iron store house; owner, P. R. R. Co., Thirty-second and Market Sts.

Sixth St., n e cor. Somerset St., three-st'y brick shop; builder, L. Lambrecht, 2509 North Sixth St.

Twenty-third St., w s, n Filbert St., five-st'y brick mixing house; owner, Quaker City Mortar Co., 50 North Twenty-third St.

Southampton St., e s, n e Twenty-seventh St., two-st'y brick shop; builder, W. J. Patterson, Southampton Ave., Chestnut Hill.

Beach St., e s, s Vienna St., two-st'y brick rolling-mill, four buildings; owners, Hughes & Patterson Iron Co., Richmond and Otis Sts.

Bread St., w s, s New St., one-st'y boiler-house; builder, H. C. Nichols, 1220 Filbert St.

Gaul St., e Frankford Creek, one-st'y oil refinery; builder, Edward Bromley, 378 Ann St.

Fox St., n s, w Trenton St., one-st'y dry-house; builder, Jas. Crouse, 2076 East Cumberland St.

Eighth St., e s, s Cumberland St., 4 one-st'y greenhouses; owner, Chas. Schuck & Bros., 2441 North Eighth St.

Forty-sixth St., e s, s Baltimore Ave., one-st'y slaughter-house; builder, Andrew Mosely, Fifty-first and Florence Sts.

Manheim St., s s, w Main St., two-st'y brick shop; builder, Geo. Armstrong, Royal and Seymour Sts.

Church St., n s, w Richmond St., one-st'y shop; builders, Kuhn & Cotton, Thompson St., Bridesburg.

Bridesburg P. R. R. Station, one-st'y railroad station; owner, Andrew Braun, 1743 North Seventeenth St.

Foulkrod St., n e cor. Willow St., one-st'y brick boiler-house; owner, Joseph H. Brakie, 4948 Newberry St.

Fairmount Ave., s s, e Ninth St., one-st'y gas house; owner, Philadelphia & Reading Railroad, 227 South Fourth St.

Allens Lane, s s, e Cresheim Road, three-st'y brick shop; builder, Jacob Myres, 1315 Sansom St.

American St., e s, s Norris St., two-st'y brick refrigerator house; builders, Paul S. Essig & Son, 1216 Filbert St.

Somerton Pike, Somerton Station, w s, one-st'y brick shop; owner, F. K. Depue, Somerton.

Locust St., s s, w Twenty-fourth St., two-st'y brick shop; builders, Samuel Hart & Son, 1109 Fairmount Ave.

Fox St., n s, w Trenton Ave., one-st'y dye-house; builder, Jos. Crouse, 2076 East Cumberland St.

Township Line, North River Railroad, two-st'y brick shop; builder, Burd P. Evans, Manheim and Knox Sts.

Mantua Ave., n s, w Forty-first St., two-st'y brick armory; builder, A. M. Green, 331 West Chelten Ave.

Morris St., n s, w Delaware Ave., 2 five-st'y refineries; owner, W. J. McCahn & Co., 145 South Front St.

Hancock St., w s, n Jefferson St., one-st'y brick engine-house; builder, W. C. Hoyzer, 1230 Marlborough St.

Wayne St., s Walnut Lane, one-st'y green-house; builder, Albert Waltmate, 5444 Germantown Ave.

Providence, R. I. — *Union St., Nos.* 29-33, three-st'y brick building for Providence Telephone Co.; architects, Stone, Carpenter & Willson.

West Exchange St., s s, three-st'y brick building; cost, $6,000; owners, A. Carpenter & Sons.

Staten Island, N. Y. — Brick and stone electric power station, flat roof, 112′ x 326′; for the Electrical Power Company of Staten Island; architect, J. Ph. Rinn, Boston.

West Superior, Wis.—Manufactory buildings; cost, $10,000; architect, W. H. Archer, Buffalo, N. Y.

Worcester, Mass. — *Sargent St.*, brick and stone machine shop; owner, Alonzo Whitcomb; day work.

Illinois St., two-st'y frame storehouse; owners and contractors, Knowles Loom Works.

Fairfield St., one-st'y greenhouse; owner and contractor, E. Gilson.

June St., one-st'y green-house; owner, Wm. Babbitt; contractor, M. M. Slade.

BEST QUALITY

IN A ROOFING TIN PLATE DEPENDS UPON A COMBINATION OF MANY ATTRIBUTES. THE "SCOTT'S EXTRA COATED" BRAND IS NOT ONLY THE HEAVIEST COATED BUT ALSO CONTAINS THE GREATEST PROPORTION OF PURE BLOCK TIN, THUS SOLDERING WITH GREATEST EASE AND MAKING TIGHTEST JOINTS. ALL TINNERS PREFER TO USE THE "SCOTT'S EXTRA COATED."

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We have kept our word.

In an advertisement which appeared in "The Metal Worker," May 9, 1885, we stated:

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This we have done. The Welsh makers, as soon as the new tariff went into effect, insisted upon making one of our guaranteed brands lighter in weight than formerly, and of quality far below our standard. To keep faith with the architects, builders and roofers to whom we had given our guaranties, there was no other course left except to drop the imported article and make our own plates.

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EVERY TINNER SHOULD EXAMINE THESE PLATES FOR HIMSELF.

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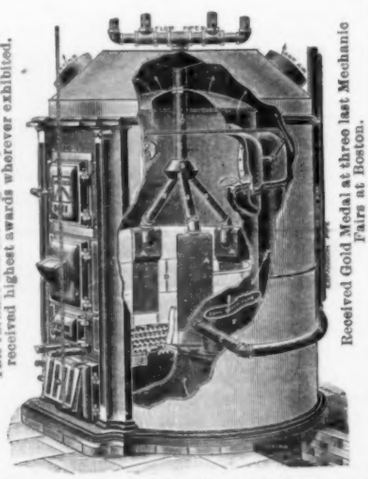

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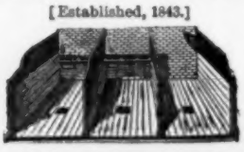

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	New York. (Wholesale Prices.)	Boston. (Wholesale Prices.)	Chicago. (Prices to Builders and Contractors.)	Philadelphia. (Prices to Builders and Contractors.)
BRICK.—₱ M.				In Yard.
Common: *Cargo afloat.*				
Pale	1 75 @ 2 00	Eastern }	Building Brick	Sq. Hard @ 9 00
Jersey	4 00 @ 4 75	9 00 @ 10 00 }	@ 6 50	" @ 7 00
Long Island	@	Bay State Hard		Salmon @ 5 00
Up River	4 00 @ 4 75	7 00 @ 8 00		Sq. " @ 9 00
Haverstraw Bay 2d	4 75 @ 5 00	Domestic Com.	Indiana Pressed	Light Stretchers
" 1st	5 00 @ 5 25	9 50 @ 10 00	14 00 @ 20 00	@ 10 00
Hollow	@ 13 00	Domestic Face	St. Louis Fronts	Medium "
Fronts:		20 00 @ 22 00	@ 27 00	@ 12 00
Croton, Brown	@ 13 00	Philadelphia }		Red "
" dark	@ 14 00	40 00 @ 45 00 }		@ 13 00
" red	@ 14 00	Phila. mould }		Dark "
Chicago pressed (Anderson)		50 00 @ 80 00 }		@ 13 00
" Moulded			15 00 @ 27 00	Pressed
Baltimore	37 00 @ 41 00		65 00 @ 350 00	18 00 @ 20 00
Philadelphia	23 00 @ 24 00	Anderson	@ 55 00	Best Paving
Trenton	22 00 @ 23 00	14 00 @ 32 00	45 00 @ 50 00	@ 14 00
Milwaukee			45 00 @	Second "
Moulded:			25 00 @	@ 13 00
Glens Falls Red Pressed	@ 37 00		60 00 @ 100 00	Third "
" " Buff "	@ 30 00		30 @	@ 12 00
" " Moulded Red & Buff	45 00 @ 70 00		35 @	
Enamelled: *Imp.*			55 00 @ 65 00	
Enamelled (edge)	85 00 @ 100 00			
Enamelled (edge and end)	90 00 @ 115 00		@ 100 00	Dom. { @ 65
CEMENT, LIME, etc.—(₱ *cask.*)			@ 120 00	{ @ 85
Rosendale Cement	85 @ 95	1 20 @ 1 40	*Not sold.*	1 30 @ 1 50
Louisville "		Brooks, S. & Co.	1 05 @ 1 30	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	*Not sold.*	2 60 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs)	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	Jesson
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	2 60 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover)	2 50 @ 3 00		*Not sold.*	2 75 @ 2 85
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	2 70 @ 3 00
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30
Chicago Lime in bulk		St. John 1 00	55 @	{ White Mash
Wisconsin Lime			60 @	{ 1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	1 00 @ 1 00
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ *bush.*	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		35 @ 60	75 @ 1 50
Serpentine	@	10 50 per ton	@ 1 00	₱ Perch @ 4 00

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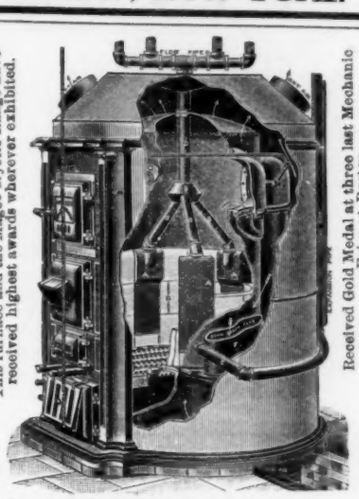

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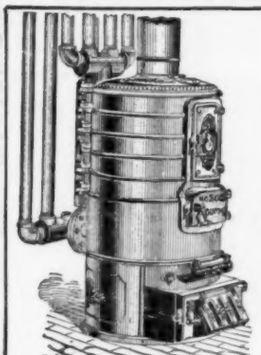
Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in.th.10 @ 25
Planed	50 @ 6 00	@ 75	80 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	} 55 @ 1 00
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	325 @ 4 00
" " Chapmans	@	@	7 30 @ 8 00	00 @ 4 65
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am ...℔ M	@	@	*Not Sold.*	@ 25 00
N. Peach Bottom, warranted unfading	@	@	@	6 00 @ 6 75
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	40 @ 41	57 @ 60	@ 60
" " boiled. (℔ gal.)	58 @ 65	43 @ 44	60 @ 63	@ 63
Turpentine (℔ gal.)	36 @ 37	@ 34	51 @ 51	@ 44
Varnish, coach (℔ gal.)	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac (℔ gal.)	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting (℔ dry)	75 @ 1 00	1 @ 1½	1 @ 1½	½ @ 1
Paris white, (Eng.) (℔ dry)	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am (℔ dry)	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt) (℔ dry)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber " (℔ dry)	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per ℔ 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask
Butts: 4″ x 4″ ...(℔ doz. pairs.)				2 90 (all kinds.)
Plain	@ 1 00	@ 1 20	@ 90	@ 90
Japanned	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Acorn, Japanned	@ 1 50	@ 1 80	2 00 @ 3 75	1 35 @ 2 75
Ball Tip, Boston Finish...(℔ pair.)	@ 65	@ 50	*Not Sold.*	48 @ 50
Bronze metal	@ 1 90	plain 1 65	2 00 @ 3 25	@ 1 25
Brass (for cupboards.)	@ 10	@ 10	@ 12	@ 1 00
Ebony	@	@	@	@ 35
Apple wood	@	@	@	37 @ 1 00
Knobs: (℔ *set.*)				
Mineral, best	@ 8	@ 8	8 @ 10	@ 08
Lava	@ 50	@ 75	65 @ 80	*Not Sold.*
Hemacite	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Porcelain	@ 30	@ 10	25 @ 30	@ 25
Glass, solid	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, silvered	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:	@	@	13 @ 16	13½ @ 16
Sheet Lead	@	@ 7½	@ 7	@ 6½
Lead Pipe	@	@ 6½	@ 6½	6 @ 6
Iron:				
I-Beams, up to and including 36 ft.	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ¼, ½, ¾ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 4-10	3 20 @ 3 70	@ 2 8-10



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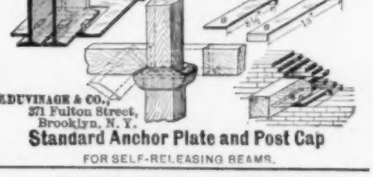

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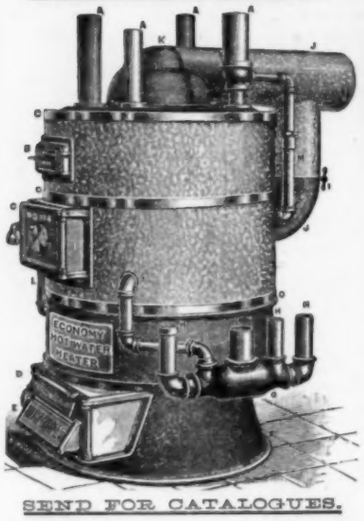

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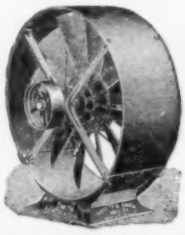

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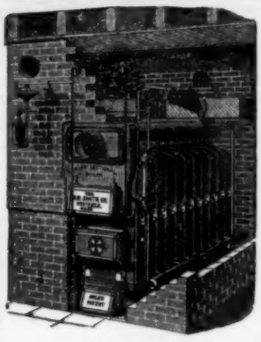

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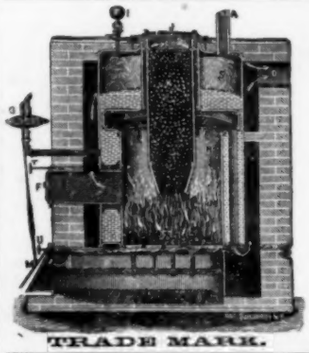

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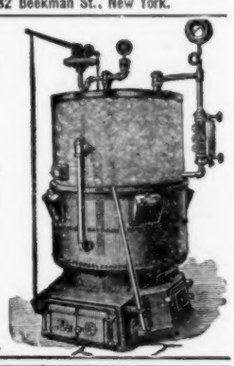

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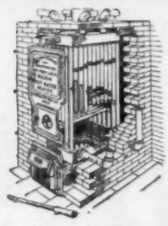

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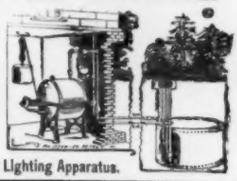

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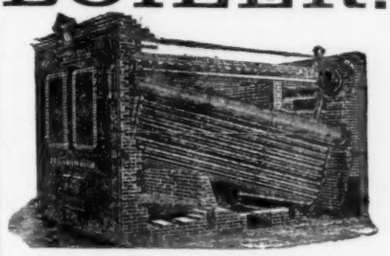

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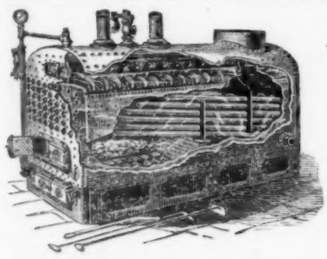

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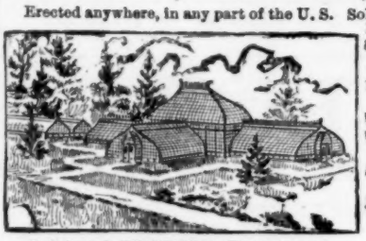

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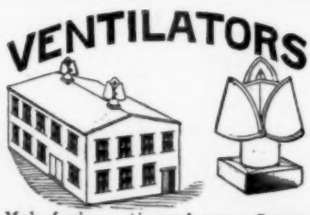

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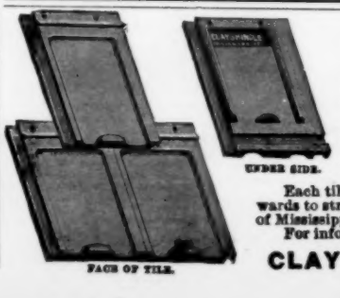

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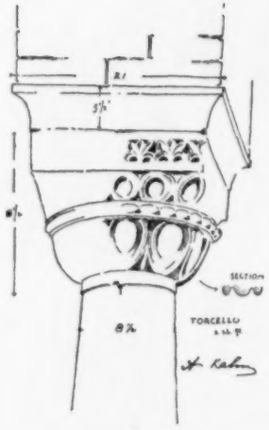

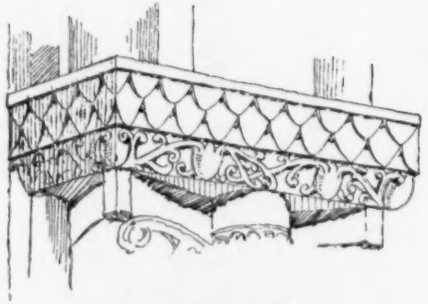

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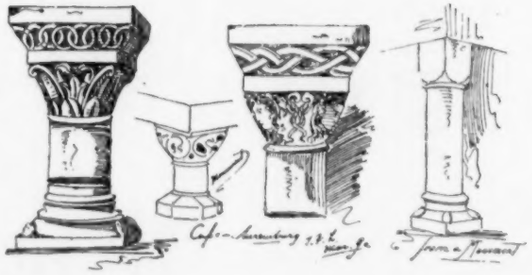

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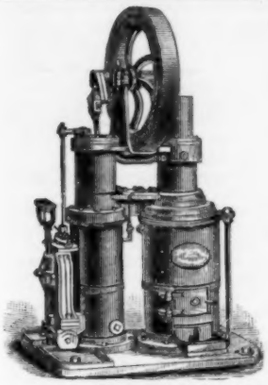

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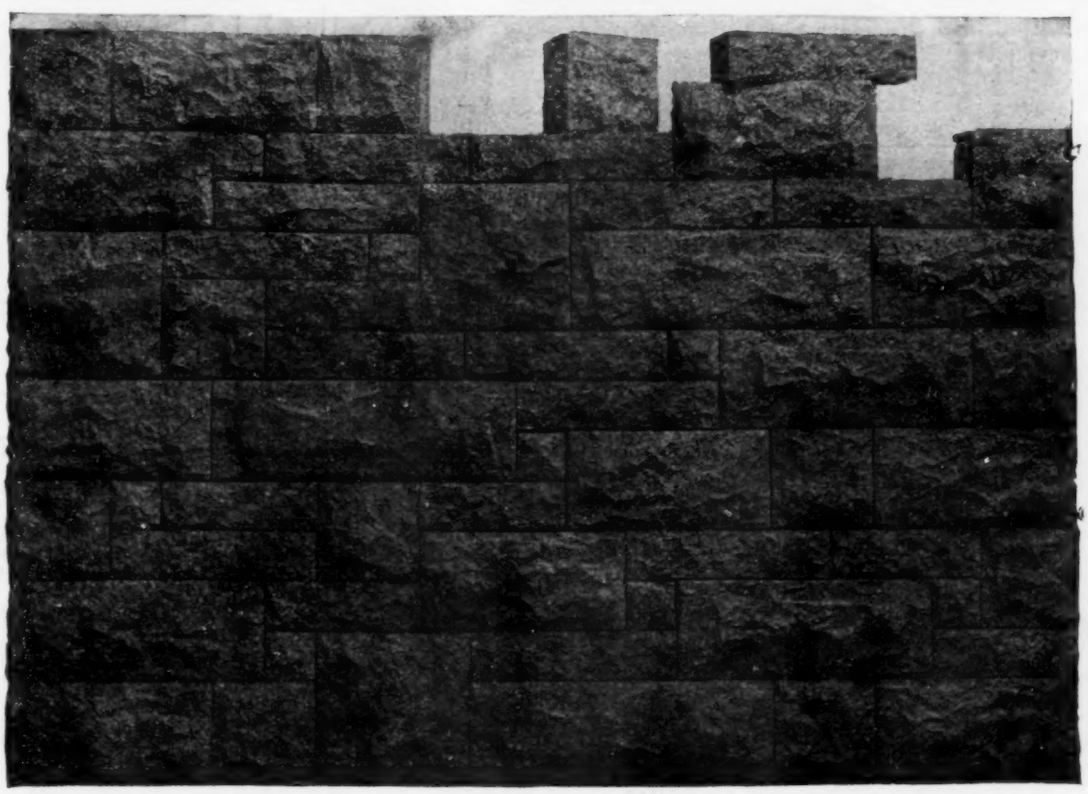

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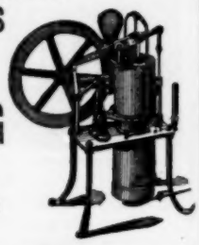

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The ordinary run of varnish in use by house-painters for interior work, called by various names, sells at from a dollar to a dollar-and-a-half a gallon.

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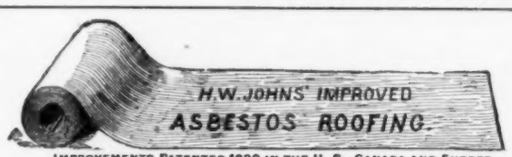

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New Advertisements.

N. & G. TAYLOR CO. (Philadelphia, Pa.), Roofing Tin. Page 2, Cover.
MERCHANT & CO. (Philadelphia, Pa.), Roofing Tin. Pages iii, xix.

PERSPECTIVE DRAWING.

The *American Architect* Drawing-Office will undertake the preparation of perspective drawings in line or color from scale drawings, or will render drawings already in outline. Address the editors.

WANTED.

POSITION. — Wanted, position by draughtsman, good constructionist and superintendent; would take charge of an office; best New York references. Address "M. W.," care of *American Architect*. 872

WANTED.

POSITION.—Wanted, designer in charge; effective sketcher; practical in planning furniture, building work, etc., wishes to make a change. Good opening in trade acceptable. Address "M," care of *American Architect*. 874

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480,786. DROP-TUBE FOR STEAM OR HOT-WATER BOILERS.—John A. Scollay, Brooklyn, N. Y.
480,799. HINGE.—Thomas Tangney, South Superior, Wis.
480,806. WINDOW. — John W. Cooper, New York, N. Y.
480,818. HYDRAULIC BRICK-PRESS. — Julius J. Koch, St. Louis, Mo.
480,824. LUEBER-ELEVATOR. — Hector McKinnon, Eureka, Cal.
480,845-846. ELECTRIC ELEVATOR. — Frank E. Herdman, Indianapolis, Ind.
480,847-849. ELEVATOR.—Frank E. Herdman, Indianapolis, Ind.
480,879. BRICK.—John L. Stevenson, Chicago, Ill.
480,903. SYSTEM OF HEATING.—David H. Burrell, Little Falls, N. Y.
480,908. WINDOW-FRAME. — Frank Mesker and Thomas O. Arbegust, St. Louis, Mo.
480,909. BUILDING-FRONT. — Charles T. Richards, St. Louis, Mo.

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480,912. MACHINE FOR REPRESSING BRICKS. — William W. Wallace and Raymond C. Penfield, Willoughby, Ohio.
480,927. CEILING.—Andrew Kaiser, Columbus, Ohio.
480,935-936. BRICK-KILN. — James W. Penfield, Willoughby, Ohio.
480,940. BRICK-KILN. — William H. B. Stout, Chicago, Ill.
480,991. WINDOW-CHAIR. — Adolph Boetcher, South Stillwater, Minn.
481,044. HINGE.—Noah W. Mottinger, Akron, Ohio.
481,077. WINDOW-BLIND.— Edward Stoeppelwerth and Charles H. Knefelkamp, St. Louis, Mo.
481,085. HEATING AND VENTILATING APPARATUS. — Samuel W. Wayson, Detroit, Mich.
481,091. WINDOW FRAME AND SASH. — John Anderson, Hickson, N. D.
481,103. SASH-BALANCE. — Henry P. Cayce, McGregor, Tex.
481,108. APPARATUS FOR CONSUMPTION OF SEWER-GAS.—Jacob Eckhardt, St. Louis, Mo.
481,111. SHUTTER-FASTENER. — Gorge H. Glad, Boston, Mass.
481,115. BUILDING-FRONT. — Frank Mesker and Thomas O. Arbegust, St. Louis, Mo.
481,120. ELECTRIC ANNUNCIATOR. — Frank A. Pickernell, Newark, N. J.
481,145. SASH-BALANCE.—Joseph P. Magney, Oakland, Cal.
481,147. APPARATUS FOR DRYING OR CREMATING GARBAGE AND FECAL MATTER. — John H. Parke, Philadelphia, Pa.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING SEPTEMBER 2, 1892.

From Antwerp. — Steamer "*Othello*," 1,250 barrels cement, order. Steamer "*Friesland*," 1,500 casks cement, Morris Ebert; 280 girders, Brown Bros. & Co.; 248 packages structural iron, R. F. Downing & Co.; 3,500 barrels cement, order.

From Bremen. — Bark "*Noach VI.*" 2,500 barrels Portland cement, order. Steamer "*America*," 1,008 barrels Portland cement, 1 case stone, order. Steamer "*Corona*," 4,082 casks cement, order.

From Glasgow. — Steamer "*State of California*," 38 cases stone, G. P. Sherwood; 25 barrels Portland cement, 275 cases granite, Austin, Baldwin & Co. Steamer "*Circassia*," 12 blocks stone, H. R. Binswanger.

From Hamburg. — Steamer "*Gellert*," 500 casks cement, E. Thiele. Ship "*Wilhelm Birkedal*," 2,785 barrels Portland cement, order. Steamer "*Moravia*," 1,000 barrels cement, order.

From Hull.—Steamer "*Colorado*," 500 casks cement, E. Thiele.

From Leghorn. — Bark "*Italia*," 19 blocks marble, Pells & Co.; 7 do., order.

From Liverpool. — Steamer "*Servia*," 126 casks bricks, Howard Fleming. Steamer "*Arizona*," 24 cases granite, Brown & McGowan. Steamer "*Naronic*," 106 blocks stone, Pike Mfg. Co. Steamer "*Teutonic*," 168 casks bricks, Meeker & Carter.

From London. — Steamer "*Lydian Monarch*," 1,500 casks cement, order. Steamer "*Manitoba*," 500 casks cement, Hammill & Gillespie; 500 do., Bank of British North America; 32 sacks do., order. Steamer "*Europe*," 3 logs wood, Willard Hawes & Co.; 2,000 casks cement, C. J. Stevens; 4,000 barrels do., 2 casks do., 200 casks do., order.

From Rotterdam. — Steamer "*Edam*," 1,000 casks cement, E. Thiele; 1,000 do., order. Steamer "*Veendam*," 1,000 casks cement, E. Thiele.

From Stettin.—Steamer "*Island*," 500 barrels Portland cement, H. Marquardt & Co.; 1,694 barrels cement, 700 do. Portland cement, order.

From St. Jago. — Steamer "*Santiago*," 112 logs mahogany, C. F. Ferrer & Bro.; 21 logs cedar, 113 do. mahogany, order.

From Stockholm. — Ship "*J. Weissenhorn*," 1,760 barrels cement, order.

From Trinidad.— Steamer "*Alps*," 700 tons asphaltum, order.

From Windsor, N. S.—Schooner "*Newburgh*," 1,000 tons lump plaster, J. F. Whitney & Co. Bark "*George Davis*." 1,024 tons lump plaster, J. F. Whitney & Co. Schooner "*Calabria*," 825 tons plaster, J. F. Whitney & Co.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[*Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.*]

APARTMENT-HOUSES.

Chicago, Ill. — E. S. Loyde, two-st'y flats, 2510 Paulina St.; cost, $4,000.

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BUILDING INTELLIGENCE.

R. J. Walsh, 4 three-st'y flats, 3713-3723 Stanton Ave.; cost, $20,000.
William Loose, three-st'y flats, 6 Ambrose Ave.; cost, $4,000.
T. Maloney, 6 two-st'y flats, 7034-7044 Webster Ave.; cost, $36,000.
Sebastian Noger, three-st'y flats, Racine Ave. and George St.; cost, $8,000.
Thomas Sennett, 2 two-st'y flats, 317-319 Hermitage Ave.; cost, $7,000.
John F. Worton, three-st'y flats, 263 Dayton St.; cost, $8,000.
John Lindkermer, three-st'y flats, 438 Glenwood Ave.; cost, $5,000.
M. Miller, three-st'y flats, 244 Potomac Ave.; cost, $4,000.
Louis Gartner, 4 three-st'y flats, 61 Canalport Ave.; cost, $9,000.
John Sexdler, three-st'y flats, 741 Jane St.; cost, $3,500.
Val. Blatz, three-st'y flats, 283 Augusta St.; cost, $5,000.
Val. Blatz, two-st'y flats, 686 Ohio St.; cost, $4,000.
Madison & Deyound, 3 three-st'y flats, Michigan and Union Sts.; cost, $20,000.
E. C. Spinney, 2 four-st'y flats, 569 Sixty-third St.; cost, $17,000.
J. H. Castburn, 3 four-st'y flats, 4338-4342 Cottage Grove Ave.
Adolph Jacobs, two-st'y flats, 4731-4733 Ashland Ave.; cost, $10,000.
W. E. Powell, 2 two-st'y flats, 1153-1155 Sixty-first St.; cost, $12,500.
Mrs. Caroline Kurer, three-st'y flats, 4734 Dearborn St.; cost, $3,100.
John S. Thomas, 5 four-st'y flats, Madison Ave. and Sixtieth St.; cost, $100,000.
Peter Ebersold, three-st'y flats, 29 Hastings St.; cost, $5,000.

(*Continued on page* xv.)

FACTS ABOUT

HARD OIL FINISH.

COMPARISONS.

Some one has remarked that "Comparisons are odious," and if he who said it had been thinking of Hard Oil Finish, he could not have uttered a greater truism.

Among the many articles offered nowadays labeled "Hard Oil Finish," there is only one that has any right to the title, only one that can be depended upon to give the highest and best results in the way of a finish on interior wood-work, no matter how fine the job may be. The *one* referred to is of course made by Berry Brothers, the inventors of the article, its sole manufacturers, and the originators of the name "Hard Oil Finish," which is now so widely counterfeited. Surely these facts are worthy of careful consideration at the hands of the Architect.

The specification and *use* of Hard Oil Finish means the best finish attainable on the wood-work, the use of an imitation, or rather one of the counterfeit articles means in all probability ruining the job.

The genuine goods cost more money than the counterfeits, and that is the reason why the latter are sometimes used when the Architect does not give Hard Oil Finish its full title in the specifications — thus "BERRY BROTHERS' HARD OIL FINISH."

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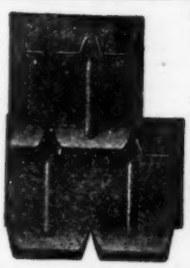

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George Lehr, two-st'y flats, 621 North Leavitt St.; cost, $3,500.

John Graham, three-st'y flats, 16-18 Carroll Ave.; cost, $4,800.

C. A. Tielden, two-st'y flats, 6312 Champlain Ave.; cost, $7,000.

Bridget Zimmer, two-st'y flats, 5550 Wabash Ave.; cost, $6,300.

Martin Howe, three-st'y flats, 3408 Union Ave.; cost, $5,000.

Mrs. Jane Shanely, two-st'y flats, 154 Henry St.; cost, $3,200.

John Kowalski, two-st'y flats, 51 Cornelia St.; cost, $4,000.

Alice Bennings, two-st'y flats, 3559 Lincoln St.; cost, $5,000.

T. J. Morrisson, two-st'y flats, 755 Spaulding Ave.; cost, $3,000.

O. B. Olson, three-st'y flats, 682 West Superior St.; cost, $5,000.

R. J. Johnson, one-st'y flats, 6627 Maryland Ave.; cost, $3,000.

Anton Dehfosse, 3 three-st'y flats, 4632-4636 Vincennes Ave.; cost, $25,000.

Mosher Apartment Building, four-st'y apartment-building, 2720-2728 Wabash Ave.; cost, $190,000.

Susie Sieverman, three-st'y flats, 415 South Paulina St.; cost, $7,000.

P. Melvie, two-st'y flats, 654 Danie St.; cost, $3,000.

John York, three-st'y flats, 366 Johnston St.; cost, $7,000.

Edward J. Lewis, 8 three-st'y flats, 86-94 Park Ave.; cost, $50,000.

Mrs. Ed. Edwell, 2 three-st'y flats, 1660-1662 Barry Ave.; cost, $15,000.

John Ricks, three-st'y flats, 832 South California Ave.; cost, $5,200.

Mrs. E. C. Martin, three-st'y flats, 422 Ashland Ave.; cost, $10,000.

James Brennan, two-st'y flats, 800 Dexter Ct.; cost, $3,000.

Daniel W. Simmons, 2 three-st'y flats, 836-838 West Twelfth St.; cost, $10,000.

H. Hawekotte, 2 two-st'y flats, 1021-1023 Washtenaw Ave.; cost, $3,000.

August H. Lee, three-st'y flats, 189 Milton Ave.; cost, $6,000.

M. A. Hogeman, two-st'y flats, 5628 Dearborn St.; cost, $30,000.

M. O'Sullivan, two-st'y flats, 6651-6653 Maryland Ave.; cost, $14,000.

J. C. Owend, three-st'y flats, 4835 Prairie Ave.; cost, $10,000.

William Derwin, three-st'y flats, 2808 Emerald Ave.; cost, $3,500.

Ole J. Larson, two-st'y flats, 774 Rockwell St.; cost, $3,400.

Eloise Kloss, three-st'y flats, 419 Troy St.; cost, $5,500.

Dent Bros., three-st'y flats, 1237 Wolcott St.; cost, $6,000.

John Hansen, four-st'y flats, 276 North May St.; cost, $10,000.

T. F. Robinson, two-st'y flats, 1613 Fulton St.; cost, $4,500.

C. F. Hallstrom, two-st'y flats, 481 Forty-sixth St.; cost, $3,500.

Henry Brand, two-st'y flats, 5744 Emerald Ave.; cost, $3,000.

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John Fucik, three-st'y flats, 801 Sawyer Ave.; cost, $4,500.

M. Lipecki, three-st'y flats, 17 Edgar St.; cost, $5,500.

Harry Rubens, six-st'y apartment building, 50-54 Walton Pl.; cost, $60,000.

Neill & Mahuke, 10 three-st'y flats, Garfield Boulevard and Emerald Ave.; cost, $75,000.

Annie McGary, two-st'y flats, Seventy-fifth St. and Bond Ave.; cost, $4,000.

St. Louis, Mo.—Four adj. flats; cost, $10,000; owner and contractor, G. F. Burdears.

Two-st'y brick flats; cost, $5,900; owner, T. J. Paveler; contractors, T. Voepel & Son.

Two adj. two-st'y brick flats; cost, $4,500; owner, W. Lehm; contractor, Thomas Kurttel.

Two-st'y brick flats; cost, $4,500; owner, Gruetzmacher; contractor, Whitman.

Three adj. two-and-one-half-st'y brick flats; cost, $6,600; owner, T. Mesnuer; contractor, A. Dietz.

CHURCHES.

Chicago, Ill.—Bohemian Catholic Church, church and school, 500-503 Evarts Ave.; cost, $3,000.

P. H. Perry & Ebbelhart, church, 5511 Emerald Ave.; cost, $5,000.

St. Francis Xavier's Church, two-st'y church and school, 295-299 Warsaw Ave.; cost, $12,000.

FACTORIES.

Boston, Mass.—*Appleton Road, rear*, near Lake St., Ward 25, two-st'y frame factory, flat roof, 72.6' x 96.8'; owner, Brookline Artificial Ice Co.; builders, W. Fillmore & Co.

Chicago, Ill.—Frank Stark, seven-st'y factory, 228-230 West Ohio St.; cost, $22,000.

Lynn, Mass.—*Curve St.*, two-st'y frame shoe-factory, flat roof, 200' x 62.6'; owner, J. C. Bennett; contract to be let; architect, W. W. Lummus, Boston.

New York, N. Y.—*First Ave., Nos.* 648-650, four-and-six-st'y brick factory building, Sparham star roofing; owner, Patrick Skelly, 51 West Sixteenth St.; architects, Lederle & Co., 15-25 White Hall St.

East Twenty-sixth St., No. 306, five-st'y brick factory, tin roof; cost, $140,000; owner, James Rollins, 457 Second Ave.; architects, J. Boekell & Son, 57 Reade St.

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BUILDING INTELLIGENCE.

West NinthSt., No. 64, *Clinton Pl., No.* 133, four-st'y brick factory, tin roof; cost, $8,000; owner, C. Perceval, 100 Sixth Ave.; architect, M. C. Merritt, 1267 Broadway.

St. Louis, Mo.—Four-st'y brick factory; cost, $6,000; owner and contractor, G. Y. Brecht.

HOTELS.

Chicago, Ill.—B. Philpot & Co., seven-st'y hotel, 38-42 Thirteenth St.; cost, $70,000.

C. F. White, four-st'y hotel, Sixty-fifth Pl. and Hope Ave.; cost, $65,000.

C. B. Waite, six-st'y hotel, 5228-5232 Lake Ave.; cost, $60,000.

Barry Bros., four-st'y hotel, Washington Ave and Fifty-ninth St.; cost, $200,000.

HOUSES.

Boston, Mass.—*Lauriat Ave.*, near Lyons St., Ward 24, frame dwell., 22′ x 31′; owner and builder, F. J. Rockwell.

Columbia St., near Washington St., Ward 24, frame dwell., 35.7′ x 38.1′; owner, E. B. Wilder; builder, W. J. Jobling.

Temple St., near Keith Ave., Ward 23, frame dwell., hip roof, 22.6′ x 32′; owners, Mt. Vernon Land Co.; builders, Maguire & Twoley.

Neponset Ave., cor. Jewett St., Ward 23, frame dwell., 23′ x 42.6′; owner, Patrick Lennon; builders, Sittig Bros.

Hyde Park Ave., near Ashland St., Ward 23, frame dwell., 23′ x 37.6′; owner, C. Stohn; builders, Sittig Bros.

Atwood Ave., near Day St., Ward 22, frame dwell., 24′ x 47′; owner, John C. Casson; builder, George H. Spence.

Centre St., cor. Willow St., Ward 23, frame dwell., 22′ x 36′; owner, Otis H. Weed; builder, W. S. Mitchell.

Murdock St., opp. Hill St., Ward 25, two frame dwells., 25′ x 35′; owners, B. E. Gately & Son; builder, Otis Gately.

Notre Dame St., near Bragdon St., Ward 23, frame dwell., 20′ x 37′; owners and builders, Alcock & McKay.

Thornley St., No. 28, Ward 24, frame dwell., 24.3′ x 45′; owner, Mrs. Annie L. Hayes; builders, Laming & MacIlroy.

Bennett St., cor. Leicester St., Ward 25, frame dwell., 24′ x 32′; owner, A. Wilson; builder, C. H. Hampton.

Farrington Ave., near Linden St., Ward 25, frame dwell., hip roof, 40.6′ x 45.6′; owner and builder, F. L. Whitcomb.

Paul Gore St., near Centre St., Ward 23, three-st'y frame dwell., hip roof, 24′ x 50′; owner, John Wilson; builder, J. P. Campbell.

Centre St., near Mozart St., Ward 24, 3 three-st'y frame dwells., 26′ x 56′; owner and builder, J. W. Priesing.

Marmion St., near Cornwall St., Ward 23, frame dwell., 25′ x 38′; owner and builder, J. K. Hicks.

Mattapan St., near Tileston Ave., Ward 24, frame dwell., 21.6′ x 30′; owner and builder, A. M. Leonard.

Bennington St., near West St., Ward 1, frame dwell., 20′ x 30′; owner, N. P. Lorenson; builder, F. S. Brown.

Webster St., near Orleans St., Ward 2, three-st'y frame dwell., flat roof, 21′ x 60′; owner and builder, J. A. Woods.

Gladstone St., near Orient Ave., Ward 1, frame dwell., hip roof, 22′ x 28′; owner, J. McMurray; builders, D. Porter and J. Irving.

Neponset Ave., near Pope Hill St., Ward 24, frame dwell., 24′ x 47′; owner, Charles Hart; builder, H. J. Rice.

Preston St., No. 1, Ward 22, frame dwell., 22′ x 38′; owner, Abraham Wilson; builder, David Holliday.

Brooklyn, N. Y.—*Sackett St.*, n s, 275′ w SmithSt., four-st'y brick dwell., tin roof; cost, $10,000; owner, architect and builder, Theo. Pearson, 294 Hoyt St.

Eastern Parkway, n w and n e cor. Fountain Ave., and *Glenmore Ave.*, s e and s w cor. Fountain Ave., 4 two-st'y brick dwells., shingle roofs; cost, $3,500 each; owner and builder, J. B. Benta, 181 Broadway; architect, Wm. Danmar, Atlantic and Van Siclen Aves.

Livonia Ave., n s, 20′ w Sackman St., 8 two-st'y frame dwells., tin roofs; cost, $1,800 each; owner and builder, C. Borman, Ellery Ave.; architects, Danmar & Fischer, Atlantic and Van Siclen Aves.

Railroad Ave., w s, 100′ n Eastern Parkway, 7 two-st'y frame dwells., tin roofs; cost, $2,400 each; owners and builders, Charles Lohrentz & Co., Railroad Ave., near Jamaica Ave.; architect, Wm. Danmar, Atlantic and Van Siclen Aves.

Newell St., No. 95, three-st'y frame dwell., gravel roof; cost, $5,000; owner, A. Meyer, on premises; architect, John Boren, 311 Webster St., Long Island City.

Dean Place, w s, 20′ n Atlantic Ave., 8 three-st'y frame dwells., tin roofs; cost, $3,000 each; owner, M. Giblin, 1694 Dean St.

Hopkinson Ave., e s, 20′ n Atlantic Ave., 3 three-st'y frame dwells., tin roofs; cost, $3,000 each; owner, M. Giblin, 1694 Dean St.

Atlantic Ave., n s, 78′ w Ocean Place, 2 three-st'y frame dwells., tin roofs; cost, $3,000 each; owner, M. Giblin, 1694 Dean St.

Elton St., s s, 185′ e Hegeman St., 2 two-st'y frame dwells., tin roofs; total cost, $9,000; owners, Buellner & Brown, 130 Morgan St.; architect, F. Homberg, 1169 Broadway.

Hemlock St., e s, 100′ s Eastern Parkway, 9 two-st'y frame dwells., tin roofs; cost, $2,400 each; owner and builder, S. Mafera, Railroad Ave., near Jamaica Ave.; architect, W. Danmar, Atlantic and Van Siclen Aves.

Magenta St., n s, 125′ e Crescent St., 2 two-st'y frame dwells., tin roofs; cost, $1,600 each; owner and builder, John Power, Sutter Ave., near Osborne Ave.; architect, Wm. Danmar, Atlantic and Van Siclen Aves.

Maujer St., n s, 150′ e Union Ave., four-st'y frame dwell., tin roof; cost, $5,500; owner, Chas. Hellesheimer, on premises; architect, Th. Engelhardt, 905 Broadway.

Ralph St., s s, 150′ w St. Nicholas Ave., two-st'y frame dwell., tin roof; cost, $3,000; owner and builder, C. Bott, 239 Bushwick Ave.; architect, Th. Engelhardt, 905 Broadway.

Covert St., n s, 50′ e Evergreen Ave., 3 two-st'y frame dwells., tin roofs; cost, $2,800 each; owners, architects and builders, J. S. Bogart & Co., 1153 Fulton St.

Hemlock St., w s, 140′ s Eastern Parkway, 4 two-st'y frame dwells., tin roofs; cost, $1,500 each; owner and builder, John Babcock, 219 Halsey St.; architect, M. F. Walsh, 74 Rockaway Ave.

Prescott Place, e s, 120′ n Atlantic Ave., two dwells.; *Bancroft Place*, w s, 20′ n Atlantic Ave., three dwells.; *and Prescott Place*, w s, 167′ s Herkimer St., 6 three-st'y frame dwells., tin roofs; cost, $5,000 each; owner and architect, N. H. Raymond, 164 Ralph Ave.

Sutter Ave., n e cor. Snediker Ave., three-st'y frame dwell., tin roof; cost, $5,200; owner, Emilie Wozniak, Snediker Ave., near Belmont Ave.; architect, Charles Infanger, 126 Van Siclen Ave.

State St., n s, 125′ w Nevins St., four-st'y brick apartment-house, tin roof; cost, $8,500; owner and builder, Thomas J. Smith, 458 Eleventh St.; architect, W. M. Coots, 189 Montague St.

Stockholm St., s s, 150′ e Hamburg Ave., 3 three-st'y frame dwells., tin roofs; cost, $13,000; owners, Frank Eller and John Clement, 155 Hamburg Ave.

Greene Ave., n s, 200′ e Central Ave., 4 three-st'y frame dwells., tin roofs; cost, $4,000; owners and architects, Hahn Bros., 286 Central Ave.

Miller Ave., e and w s, 100′ s Belmont Ave., 12 two-st'y brick dwells., tin roofs; total cost, $42,000; owner, Albert G. Baker, 635 Prospect Place; architect, W. M. Coots, 189 Montague St.; builder, Henry C. Baker, 635 Prospect Place.

Dean St., No. 863, four-st'y brick dwell., slate roof; cost, $8,000; owner, John Callwell, 863 Dean St.

Dean St., s s, 350′ e Bedford Ave., 5 three-st'y brick dwells., tin roofs; cost, $6,800 each; owner, C. L. Sammis, 138 Penn St.; architect, J. McAuliffe.

Chicago, Ill. — *State St.*, dwell. of light sandstone; owner, Mr. Brosseau; architects, Shepley, Rutan & Coolidge, Boston.

James Bond, two-st'y dwell. and barn, 26-28 West Fifty-first St.; cost, $3,000.

Henry Cohns, three-st'y dwell. and barn, 782-786 Washington Boulevard; cost, $15,000.

W. R. Kellogg, two-st'y dwell., Irving Ave., near Douglass Boulevard; cost, $3,500.

J. D. Gore, two-st'y dwell., 4726 Champlain Ave.; cost, $4,000.

J. L. Cochran, 3 two-st'y dwells., Kenmore and Wintnrop, Glenlake and Winthrop Aves.; cost, $9,000.

Henry Olson, two-st'y dwell., 517 North Hoyne Ave.; cost, $5,000.

L. S. Dickenson, two-st'y dwell., Park Ave. and Douglass Boulevard; cost, $3,000.

Joseph B. Woodruff, two-st'y dwell., 87-89 Seventy-fourth St.; cost, $5,000.

August Blume, three-st'y dwell., 3245 Groveland Ave.; cost, $6,000.

C. A. Williams, two-st'y dwell., Charlton and Earl Sts.; cost, $3,000.

William Hulsman, two-st'y dwell., 36 Columbia St.; cost, $3,100.

Y. E. Martin & Co., 3 two-st'y dwells., 559-563 Kenwood Pl.; cost, $18,000.

L. D. Robertson, two cottages, 7323-7325 South May St.; cost, $3,000.

Adolph Newicke, two-st'y dwell., 8231 Bond Ave.; cost, $4,500.

John C. Griffin, three-st'y dwell., 5127 Michigan Ave.; cost, $12,000.

F. L. Cook, two-st'y dwell., 521 Addison St.; cost, $4,000.

J. W. Johnson, two-st'y dwell., 459 Forty-second St.; cost, $7,000.

Jarvis & Conklin, 10 two-st'y dwells., Butler, Parnell, Wallace, Hanover Sts., cor. One Hundred and Eleventh, One Hundred and Twelfth and One Hundred and Thirteenth Sts.; cost, $32,800.

W. M. Brewer, two-st'y dwell., 7627 Dickey Ave.; cost, $3,500.

I. Jones, two-st'y dwell., 426 Ashland Boulevard; cost, $5,000.

E. G. Tanner, two-st'y dwell., Irving Ave. and Irving Park Boulevard; cost, $4,000.

Fitchburg, Mass. — Stone and frame dwell., also frame stable; owner, Alvah Crocker; architects, Shepley, Rutan & Coolidge, Boston.

Somerville, Mass. — *Wheatland St.*, frame dwell., 15.6′ x 50′; owner and builder, George E. Ricker.

Harrison St., frame dwell., 24′ x 34′; owner, Patrick Keating; builder, J. D. Poingester.

Derby St., frame dwell., 24′ x 44′, owner, J. A. Durell; builder, Robert Bennett.

St. Louis, Mo. — Two-st'y brick dwell.; cost, $3,000; owner and contractor, Frank Drelenlein.

(*Continued on page* xix.)

THE following Report by Prof. J. S. Newberry, Professor of Geology and Paleontology in the Columbia College School of Mines, in which he has established a museum of 100,000 specimens of rare value, should be given due weight as being the opinion of the highest living authority upon the subject of which he writes.

Dr. Newberry was born in Windsor, Ct., December 23, 1822. He graduated from Western Reserve College in 1846, and from the Cleveland Medical College in 1848, spent two years in study abroad, and then began the practice of medicine in Cleveland, where he remained until 1855.

During this year he was appointed acting Assistant-Surgeon and Geologist to the party, which under Lieut. Robert S. Williamson, explored the country between San Francisco and the Columbia River. He assisted Lieut. Joseph C. Ives in the exploration of the Colorado River, and was with Capt. John N. Macomb, on the San Juan and Upper Colorado Rivers. In 1859 Prof. Newberry travelled over the plains of Southern Colorado, Utah, Northern Arizona and New Mexico.

In 1866 Prof. Newberry was elected Professor of Geology and Paleontology in the Columbia College School of Mines. In 1869 he was appointed State Geologist of Ohio.

Seven years ago he was appointed paleontologist to the United States Geological Survey, having charge of the investigation of fossils, botany and fishes. Western Reserve College conferred the degree of LL. D. upon him in 1867. In 1888 the Geological Society of London presented him with the Murchison gold medal. He is a member of the Scientific Societies of America and Europe, was named by Congress one of the corporate members of the National Academy of Science, has been President of the American Association for the Advancement of Science, and of the New York Academy of Science since 1867, and is President of the Torrey Botanical Club.

Dr. Newberry is the author of more than two hundred titles, and stands in the front rank of the mining experts of the world.

The Potsdam Sandstone from the quarries of the Potsdam Red Sandstone Company, has been used so extensively by builders of the United States and Canada, and its reputation is so well established, that it might seem that no further word was needed on this subject. It has been under my observation for many years in the public buildings at Ottawa, Canada, and elsewhere, and more particularly in the recently constructed buildings of Columbia College, New York. I had subjected the stone used at Columbia to microscopic observation, chemical analysis and physical tests, at the time when the choice of stone was under consideration by our architect. From these experiments I had learned as I supposed all that it was necessary to know about the stone, viz: that it was a dark red banded sandstone, having a resistance to a crushing force of 17,000 to 18,000 pounds per square inch; that it consisted of silica with a slight ingredient of iron, from which it took its color, and preferable so far as strength, homogeneousness and durability were concerned to any other sandstone known to me. I therefore unhesitatingly recommended its use, and I have never since had occasion to change my mind in regard to its superiority. Still, when I went over the ground and examined the stone in place, and noticed the marked difference in the stone of the different quarries of this company, and especially when I had subjected a new series of specimens to tests for physical strength, I found that I had much to learn in regard to its variety and excellence.

In the first place I discovered that instead of one, there are at least three marked varieties of this stone, possessing different degrees of strength and shades of color, affording to the architect a means of securing a range of effects, when used either singly or in combination. Also, that the stone which we had used at Columbia, though possessing greater strength than any sandstone submitted to trial, was far surpassed in this respect by some of the other varieties attainable, and that the strongest not only exceeded in strength all other varieties of stone tested at the School of Mines, but even resisted the full crushing force of the powerful Emery testing-machine, which we have recently had constructed, and which was supposed to be capable of reducing to powder any building stone submitted to its action. The resistance to crushing force in the specimens tested, varied from 18,401 pounds to the square inch to 42,804, or rather to and beyond the extreme crushing force of our machine; for it was found impossible to overcome with the machine the resistance of two inch cubes of the strongest stone, although the pressure was carried up to 151,000 pounds. Hence we can say that the resistance to crushing force, of the strongest variety, exceeds 42,000 pounds to the square inch, a result greater than we have obtained from tests on granite of any kind, from trap or any other variety of building stone.

The element of beauty is no less important in a building stone than strength and durability. In these three qualities this stone is certainly unrivalled. It is stronger than any granite and much more durable, since granites are composed of quartz, feldspar, mica and hornblende, all of which, except the quartz are liable to decomposition on exposure. From this danger this stone is free; composed as it is practically of pure silica, it will bid defiance to the tooth of time, and had the obelisk now standing in our Central Park been composed of such a dense, homogeneous sandstone as Potsdam sandstone, it would to-day be as perfect as when erected at Tanis, 1500 B. C.

As I have said, I was surprised to find in the different quarries of this Company so many varieties of color in the stone. In the west quarries, the typical "Red Potsdam," either plain or banded, prevails. On their southern tracts are outcrops of homogeneous and monochrome, chocolate-colored stone in heavy ledges, which will yield blocks of any desired size, while in their quarries on the east side are exposed about fifty feet of rather massive layers, separated by a band of fifteen feet of foundation orbri dge stone. The upper and lower bands composing the fifty feet referred to, are mainly of light colored homogeneous stone, to which I was a stranger before visiting the quarries. This is of a reddish cream-color, very uniform in tint and pleasing to the eye. It comes out in layers from two to six feet in thickness and splits with ease and certainty in any direction. With the chocolate-colored stone, to which reference has been made it may be combined with fine effect, one variety being used for trimming to the other, as corner stones, door and window caps, porches, etc., or associated as block stones in plain walls.

This cream-colored variety works with comparative ease, and may be wrought into moulding and ornaments, much more cheaply than the harder varieties, which will be best used when hammer dressed, a style of treatment to which every phase of the stone will lend itself, as it breaks true and even under the hammer.

The different tracts of land controlled by this Company comprise about two hundred acres, distributed for about a mile up and down Racquette river, and selected with judgment so as to embrace the best outcrops of stones found in the district. On all these tracts the Potsdam sandstone is practically the surface rock, being covered only with a layer of greater or less thickness of boulder clay. In quantity, therefore, the quarries are practically inexhaustible, and it is not too much to say that they may be worked for centuries without embarrassment.

J. S. NEWBERRY.

The stone from the quarries of this Company is unexcelled for beauty of color and effect. As the only way that architects can get an idea of the color of the stone is by inspection of a sample, we shall be glad to forward samples and full information to architects who may apply for the same.

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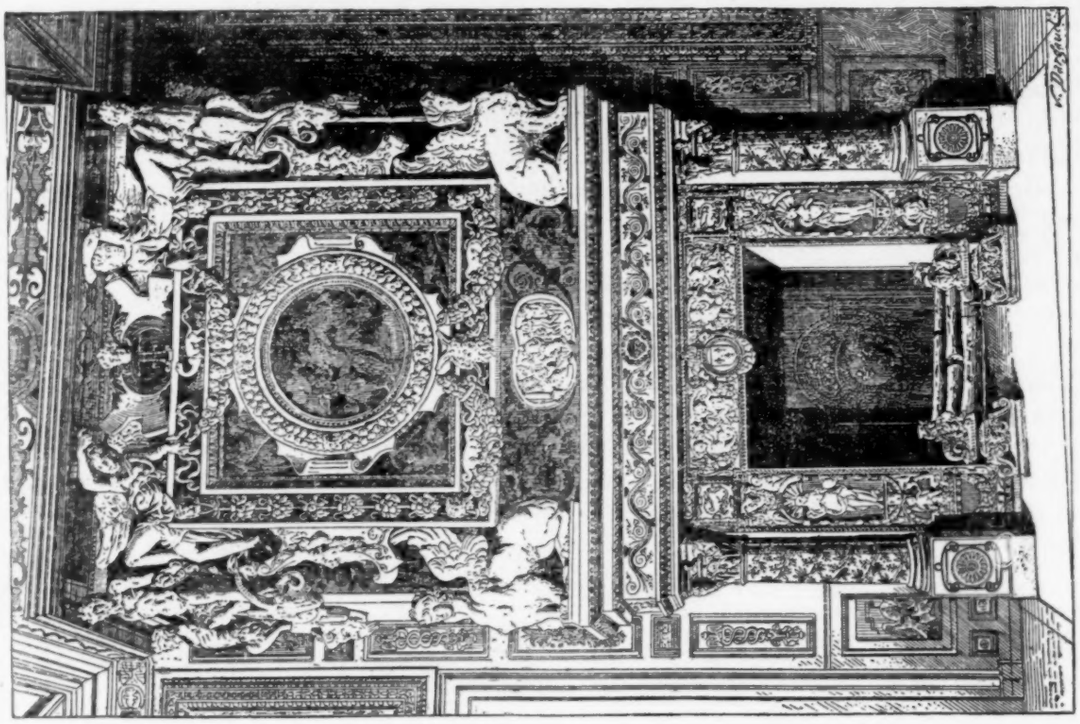

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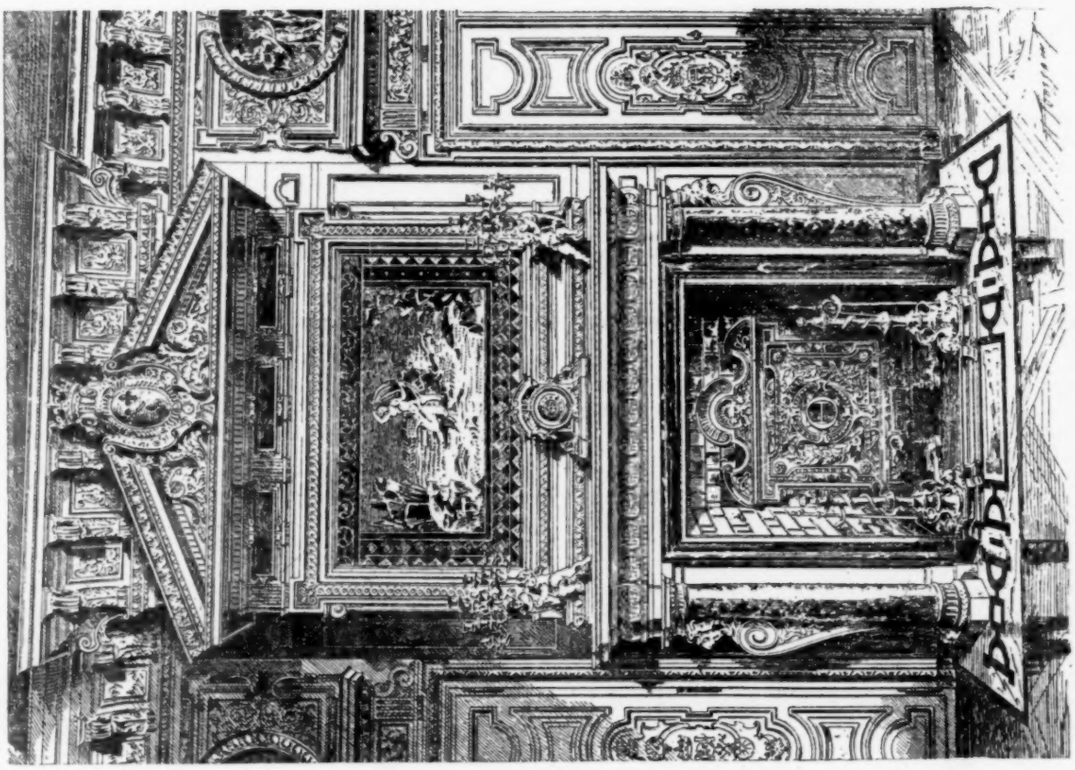

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BUILDING INTELLIGENCE.

Two-st'y brick dwell ; cost, $8,000; owner, Rettenmeyer; contractor, Reiling.

Two-st'y brick dwell.; cost, $3,950; owner, John Leeboth; contractor, Dentman.

Two-st'y frame dwell.; cost, $2,500; owner, Lydia Field; contractor, N. M. Tiel.

Two-st'y frame dwell.; owner and contractor, N. M. Tiel.

Two-st'y brick dwell.; cost, $3,000; owner, James Muullagh; contractor, Rewesser.

Two-st'y brick dwell.; cost, $3,000; owner, Col. Scott; contractors, Achelson Bros.

Two-st'y brick dwell.; cost, $4,500; owner, R. C. Kelly; contractors, Achelson Bros.

Two-st'y brick dwell.; cost, $2,800; owner, John Riley; contractor, Mason.

Two-st'y brick dwell.; cost, $6,000; owner, Col. Hill; contractor, Wind.

Two-st'y brick dwell.; cost, $4,000; owner, Mrs. J. H. Dryer; contractor, Doherty.

Two-and-one-half-st'y brick dwell.; cost, $14,500. owner, Mrs. Pallen; contractor, N. Peligreen.

Two-and-one-half-st'y brick dwell.; cost, $3,800; owner, P. Warischchuck.

Three-st'y brick dwell.; cost, $6,000; owner, Ullenhart; contractor, Remmers.

Two-and-one-half-st'y brick dwell.; cost, $5,500; owner, Mrs. Concannon; contractors, Gunn & Co.

Twelve two-st'y brick dwells.; cost, $50,000; owner and contractor, A. Cooper.

Two-st'y brick dwell.; cost, $5,500; owner, Albert Treuller; contractor, Jas. Terguses.

Two-st'y brick dwell.; cost, $3,000; owner, P. Russel; contractor, Louis Nertfeld.

Two-st'y brick dwell.; cost, $3,000; owner, W. J. Swingley; contractor, D. Evans.

Two-st'y brick dwell.; cost, $3,000; owner, J. King; contractor, C. Sudholler.

Two-st'y brick dwell.; cost, $3,000; owner, Moritz Poenake; contractors, Lassner & Ehlisch.

Two-st'y brick dwell.; cost, $2,500; owner, Mrs. F. Scholtz; contractor, A. Hoesler.

Two-st'y brick dwell.; cost, $3,200; owner, G. Berlstein; coutractor, Roeder.

Two-st'y brick dwell.; cost, $4,500; owner, E. C. Link; contractor, Lingeman.

Two-st'y brick dwell.; cost, $5,000; owner and contractor, O. Bartholomew.

Two-st'y brick dwell.; cost, $3,000; owner, Ino Owens; contractor, Bartholomew.

Two-st'y brick dwell.; cost, $4,000; owner, J. J. Bogard; contractor, J. Schenck.

Two-st'y dwell., n e cor. Lotus and Eucharist Aves.; cost, $8,000; owner, Rettenmeyer; contractor, Reiling.

Two-st'y dwell., n s Laclede St., bet. Newstead and Faylon Sts.; cost, $6,000; owner, Col. Hill; contractor, Wind.

Four two-st'y brick dwells.; cost, $3,500 each; owner and contractor, L. L. Barlow.

Three two-st'y brick dwells.; cost, $3,300 each; owners, Bergfield & Turker; contractor, Shinuck.

Two-st'y brick dwell.; cost, $6,000; owner, Mrs. Treade; contractor, Shinuck.

Two-st'y brick dwell ; cost, $7,000; owner, Mr. T. Tatum; contractor, Shinuck.

Two-st'y brick dwell.; cost, $3,650; owner, Mrs. Berg; contractor, Pfeifer.

Two-st'y brick dwell.; cost, $3,000; owner and contractor, Jas. Nagell.

Two-st'y brick dwell.; cost, $3,500; owner and contractor, D. J. Sullivan.

Three two-st'y brick dwells.; cost, $3,000 each; owners and contractors, Clark & Brewster.

Two-st'y brick dwell.; cost, $3,400; owner and contractor, Chris. Englerth.

BUILDING INTELLIGENCE.

Two-st'y brick dwell.; cost, $13,500; owner, J. J. Kelley; contractor, M. Eysaell.

Two-st'y brick dwell.; cost, $4,100; owner, C. Vanslyke; contractor, Deitz.

Two-and-one-half st'y frame dwell.; cost, $8,000; owner, Mrs. A. L. McCargo; contractor, H. Lloyd.

Two-st'y brick dwell.; cost, $3,700; owner, Emel Boast; contractor, T. Theleman.

Two-st'y brick dwell.; cost, $3,700; owner and contractor, T. Theleman.

Two-st'y brick dwell.; cost, $2,600; owner and contractor, G. C. Buckley.

Two-st'y brick dwell.; cost, $8,000; owner, H. A. Rehbein; contractor, B. H. Saverwein.

Two-st'y brick dwell.; cost, $4,500; owner and contractor, Jos. Tlennery.

Two-st'y brick dwell.; cost, $6,000; owner, Jos. Barr; contractor, T. C. Kiggins.

Brick dwell.; owner, Henry Hitchcock; architects, Shepley, Rutan & Coolidge, Boston.

Worcester, Mass. — *Buffum St.*, two-st'y frame dwell.; owner and contractor, Geo. W. Smith.

Summitt Ave., one-and-one-half-st'y frame dwell.; owner, Mrs. Mary A. Ingalls; contractor, S. A. Day.

Malvern Road, one-and-one half-st'y frame dwell.; owner, J. S. Perry; contractor, Wm. O. Burns.

WAREHOUSES.

Chicago, Ill.—Samuel Bateman, two-st'y warehouse, 237 East North Ave.; cost, $4,000.

Chicago Dock Co., seven-st'y warehouse, 114-120 Beach St.; cost, $120,000.

St. Louis, Mo. — Bet. Washington St. and Lucas Ave. and Ninth St., seven-st'y brick and terra-cotta warehouse, 100' x 225'; mill construction; contract to be let; architects, Shepley, Rutan & Coolidge, Boston.

MISCELLANEOUS.

Boston, Mass.— *High St., No.* 196, Ward 12, one-st'y restaurant, flat roof, 18' x 60'; owner, Mrs. M. A. Hallgren; builders, S. D. Hicks & Son.

Worcester, Mass. — *Barton Pl.*, four-st'y brick and stone storehouse; owner, W. W. Johnson; contractors, The Webb Granite and Construction Co.; architects, Earle & Fisher.

Lafayette St., one-and-one-half-st'y brick bottling building; owners, Bowler Bros.; builder, U. Jacques; architects, Barker & Nourse.

PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., August 24, 1892. Sealed proposals will be received at this office until two o'clock, P. M. on the 20th day of September, 1892, and opened immediately thereafter, for all the labor and material required for the approaches to the United States Court-house and Post-office building at Asheville, N. C., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent at Asheville, N. C. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Approaches for United States Court-house and Post-office building at Asheville, N. C.," and addressed to W. J. EDBROOKE, Supervising Architect. 872

PROPOSALS.

LIBRARY BUILDING.

At Richmond, Va.

COMMONWEALTH OF VIRGINIA,
OFFICE OF THE STATE BOARD OF BUILDING COMMISSIONERS,
STATE CAPITOL, RICHMOND, August 26, 1892.

Sealed proposals will be received at this office **until 12 o'clock M. September 26, 1892,** for the erection and completion of the State Library Building at Richmond, Va. Plans, specifications and "General Instructions to Bidders" may be seen at the office of the architect, W. M. Poindexter, 1320 F Street, Washington, D. C., and at this office on and after August 29, 1892.

No bid will be considered unless accompanied by a certified check for $5,000, made payable to the president of the State Board of Building Commissioners as a security for the execution of a contract for the work, with a bond in the penalty of $50,000. The Board reserves the right to reject any and all bids.

P. W. McKINNEY, Governor of Virginia and President of the State Board of Building Commissioners.

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Treasury Department, Office Supervising Architect, Washington, D. C., September 2, 1892. Sealed proposals will be received at this office until 2 o'clock P. M. on the 23d day of September, 1892, and opened immediately thereafter, for all the labor and materials required for furnishing and fixing in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Court-house and Post-office building at Greenville, S. C., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Custodian at Greenville, S. C. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, or to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals must be enclosed in envelopes sealed and marked "Proposal for Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Court-house and Post-office building at Greenville, S. C.," and addressed to W. J. EDBROOKE, Supervising Architect. 873

Proposals for Dredging. United States Engineer Office, Mobile, Ala., August 27, 1892. Sealed proposals for dredging in Mobile Harbor, Ala., Biloxi Bay, Miss., and Pascagoula River, Miss., will be received at this office until 12 M. Wednesday, the 28th day of September, 1892, and opened immediately thereafter in presence of bidders. Specifications, general instructions to bidders and blank forms of proposals will be furnished on application to this office. The attention of bidders is invited to the Acts of Congress approved February 26, 1885, and February 23, 1887, Vol. 23, Page 332, and Vol. 24, Page 414, Statutes at Large. A. N. DAMRELL, Major of Engineers, U. S. A. 873

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See our Advertisement, page iii.

Columbian Exhibition. *

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THE HORTICULTURAL BUILDING.

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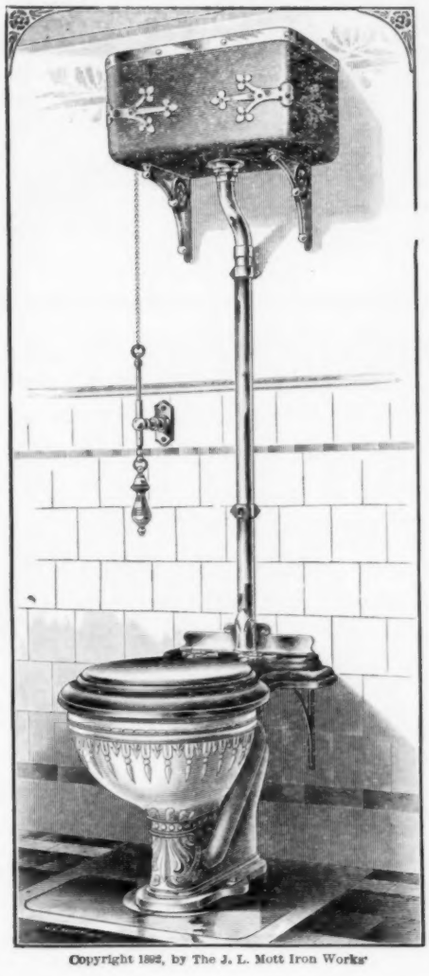

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[*See Alphabetical Index on page VII for Pagination.*]

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Agreement for Building.
Grove & Co., Washington, D. C.

Anchor Plate.
P Duvinage & C., Brooklyn, N. Y.

Annunciators.
W. R. Ostrander & Co,, New York.

Architect's Materials.
Frost & Adams, Boston. (eow)

Architectural Sheet-Metal Ornamental Works. W. H. Mullins, Salem O.

Artificial Stone.
Wehn Pavement Co., New York, N. Y.(eow)

Asbestos Felt & Boiler Coverings.
H. W. Johns M'f'g Co., New York.

Asbestos Felts.
H. F. Watson Co., Erie, Pa.

Asbestos Paint.
H. W. Johns M'f'g Co., New York.

Asphalt.
Neuchatel Asphalte Co., New York
E. H. Wootton, New York.

Asphalt Roofing.
Warren Chemical & M'f'g Co., New York.

Basin Cocks.
Stebbins Mfg. Co., Brightwood, Mass.(eow

Bath-Tub.
Miller & Coates, New York.
J. L. Mott Iron Works, New York

Bells.
Blake Bell Co., Boston, Mass.

Blue Prints.
Philadelphia Blue Print Co., Phila., Pa.(mon)
Spaulding & Moes, Boston, Mass.(eow)

Boilers.
Babcock & Wilcox Co., New York.
Campbell & Zell Co., Baltimore, Md.
Harrisburg Boiler Mfg. Co., Harrisburg, Pa.
Randolph & Clowes, Waterbury, Conn.

Books and Journals.
Babcock & Wilcox Co., New York.
Wm. T. Comstock, New York.
E. & F. N. Spon, New York.
Ticknor & Co., Boston

Brass Goods.
J. B. Shannon & Sons, Philadelphia.(mon)

Brick Ashlar.
Fiske, Coleman & Co., Boston.

Brick (Colored).
Jarden Brick Co., Philadelphia, Pa.

Brick (Ornamental).
Fleming Cement & Brick Co., New York.(eow)
Hydraulic Press Brick Co., St. Louis.
Peerless Brick Co., Philadelphia, Pa.
Waido Bros., Boston.

Brick Machine.
The Frey, Sheckler Co., Bucyrus, O.(eow)

Bronzework.
Bureau Bros., Philadelphia, Pa.(mon)
M. J. Power, New York.

Building Felt (Fire and Waterproof).
H. W. Johns M'f'g Co., New York.

Building Papers.
H. F. Watson Co., Erie, Pa.

Castings.
Passaic Art Casting Co., Passaic, N. J.

Ceilings (Metal).
The Kinnear & Gager Co., Columbus, O.(eow)
Palmer Mfg. Co., Brooklyn, N. Y.

Cellar Drainer.
Clarence M. Kemp, Baltimore, Md.

Cement (Hydraulic). F. O. Norton Cement Co., N. Y.

Cement.
Alsen's Cement Works, New York, N. Y. (eow)
Brooks, Shoobridge & Co., New York.
Dickinson Bros. & King, New York.
Fleming Cement & Brick Co., New York.(eow)
Johnson & Wilson, New York.
J. B. King & Co., New York.
E. Thiele, New York, N. Y.

Chair-Seating.
Harwood Manufacturing Co., Boston.

Chimney Tops.
H. M. Hansen, Chicago, Ill.(mon)

Chrome Steel.
Chrome Steel Works, Brooklyn, N. Y.(eow)
Baetjer & Meyerstein, New York.

Clay Shingles.
Clay Shingle Co., Indianapolis, Ind.

Conductors (Water).
W. Austin Obdyke & Co., Philadelphia.
Boston Spiral Tube Works Boston.
Souderless Standing-Seam Conductor Co., Allegheny, Pa.

Conservatories.
Lord & Burnham Co. Irvington-on-Hudson, N. Y.
Plenty Horticultural & Skylight Works, New York.

Contracting.
Flynt Building & Construction Co., Palmer, Mass.

Cordage.
Samson Cordage Works, Boston. (eow)

Creosote Stains.
S. Cabot, Boston, Mass.

Coverings. (Boiler & Pipe.)
H. W. Johns Mfg. Co., New York, N. Y.

Decorators.
L. Haberstroh & Son, Boston.
Donald McDonald, Boston.

Door Hangers.
Lane Bros. Poughkeepsie, N. Y.

Door-Knobs.
J. Bardsley, New York, N. Y.

Draughtsmen's Exchange.
R. W. Parry, Philadelphia, Pa.(mon)

Elevators, etc.
Crane Elevator Co., Chicago Ill.
Graves Elevator Co., Rochester, N. Y.
Volney W. Mason & Co., Providence, R. I.
Moore & Wyman, Boston.
Morse, Williams & Co., Philadelphia.
Otis Brothers & Co., New York.
Springfield Foundry Co., Springfield, Mass.
Whittier Machine Co., Boston.

Engines (Caloric Pumping).
Delamater Iron Works, New York.
Rider Engine Co., New York.

Fan (Ventilating).
Huyett & Smith Mfg. Co., Detroit, Mich.

Fireproof Building.
Henry Maurer, New York.
Lorillard Brick Works Co., New York.
Pioneer Fireproof Construction Co., Chicago, Ill.
Raritan Hollow & Porous Brick Co, N.Y.
J. J. Schillinger, New York. (eow)

Fireproof Construction.
Gustavino Fireproof Construction Co., N. Y.

Fireproof Curtains.
Wilkes-Barre Lace Mfg. Co. Wilkes-Barre. Pa.

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Hayes Metallic Lathing, New York.

Floors (Hardwood).
The Interior Hardwood Co., Indianapolis, Ind.
Wood Mosaics Co., Rochester, N. Y.(eow)

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National Wood M'f'g Co., N.Y.

Force Pump.
Wm. Powell Co., Cincinnati, O. (eow

Furnace.
Magee Furnace Co., Boston

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Conant Bros. Furniture Co., Toledo O

Gas-Machines.
Tirrell Gas-Machine Co., New York.

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Wm R. Pitt, New York.

Glass Roofing.
Plenty Horticultural & Skylight Works, New York.

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Maitland Armstrong & Co., New York.
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Donald MacDonald, Boston.
Tiffany Glass & Decorating Co., New York.

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Wm. H. Jackson & Co., New York.

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Berry Bros., Detroit, Mich

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A. G. Newman, New York. (mon

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Yale & Towne Mfg. Co., Stamford, Ct.

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Jas. J. Read, Boston.(mon)

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Smith & Anthony Stove Co., Boston.

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Detroit Heating and Lighting Co. Detroit, Mich
Gorton & Lidgerwood Co., New York.(eow)
New York Central Iron Works Co., Geneva, N. Y.
Page Steam-heating Co. Norwich, Conn.
J. F. Pease Furnace Co., Syracuse, N. Y.
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H. B. Smith Co., New York.

Heliotype Process.
Heliotype Printing Co., Boston.

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Link Belt Engineering Co., Philadelphia, Pa.

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Samuel C. Fitzgerald, Washington, D. C.
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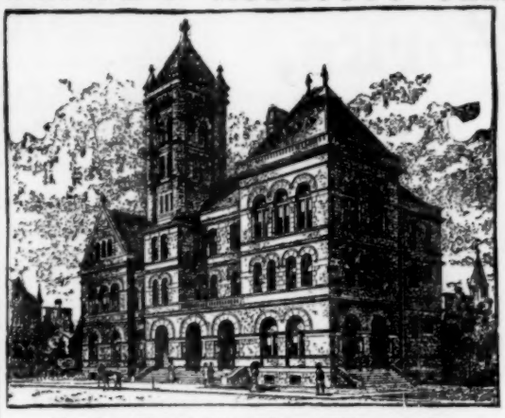

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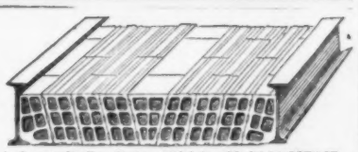
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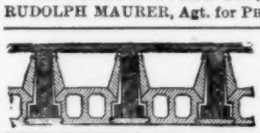
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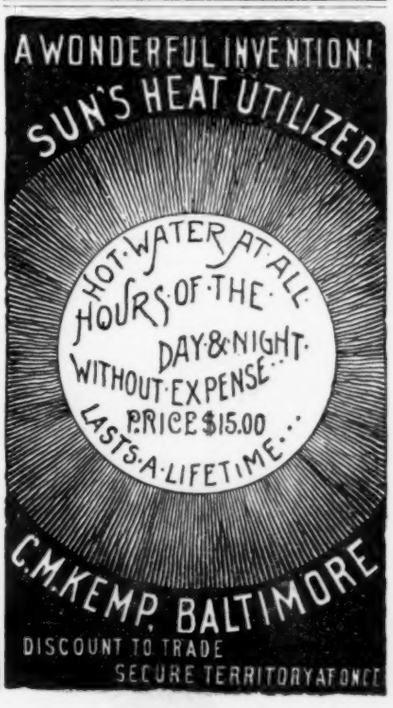

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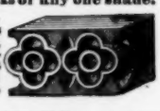

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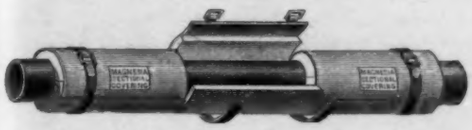

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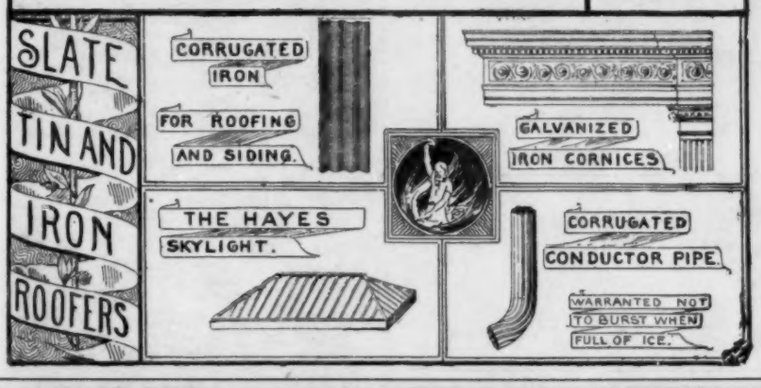

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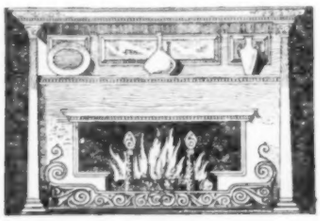

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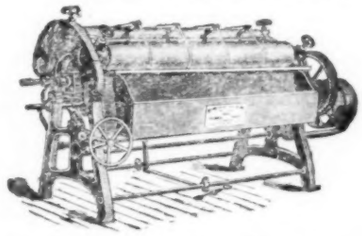

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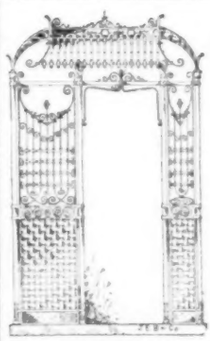

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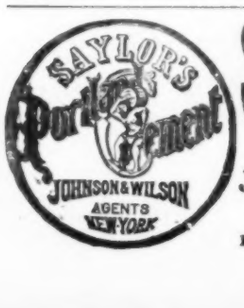

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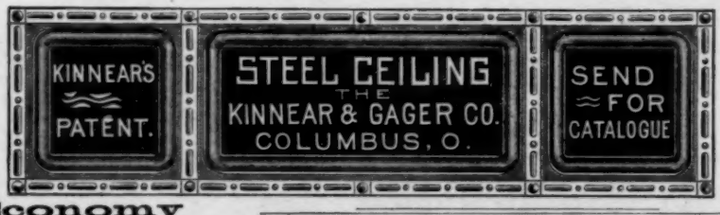

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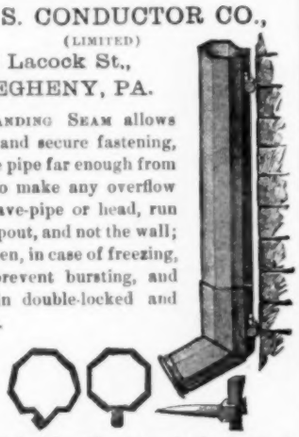

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" 3d quality	18 00 @ 22 00	35 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	13 50 @ 25 00	*Not sold.*	16 00 @ 20 00
Hemlock	ca 13½ @ 14	13 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	25 00 @ 35 00	29 00 @ 37 00	14 00 @ 29 00
Cypress	@	31 00 @ 40 00	@	@ 35 00
Clapboards:				
Pine	@	38 00 @ 60 00	10 00 @ 22 00	14 00 @ 25 00
Spruce	@	23 00 @ 35 00	*Not sold.*	*Not sold.*
Framing Timber:				
Pine			12 00 @ 15 00	25 00 @ 37 30
Spruce	14 00 @ 18 00	15 00 @ 18 00	*Not sold.*	16 00 @ 18 00
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Laths:				
Pine	@	2 25 @ 2 35	2 10 @ 2 25	2 75 @ 3 00
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Shingles:				
Pine, shaved ₱ M.	5 00 @ 6 00	@	*Not sold.*	
Pine, sawed "	4 00 @ 5 00	@ 4 50	2 20 @ 3 00	
Spruce, sawed "	1 50 @ 2 00	1 50 @ 00	*Not sold.*	
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Cedar split ₱ M.	@	@	*Not sold.*	
Cedar sawed "	@	2 00 @ 4 00	2 00 @ 2 35	20" 35 @ 14
Cypress. Split, 7 x 24, "	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
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Chestnut posts	@	25 @ 50	*Not sold.*	20 @ 30
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Mahogany, Baywood [Mexican]	@180 00	150 00 @ 160 00	150 00 @ 200 00	150 00 @ 250 00
" St. Domingo	@350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
Oak, red	@ 70 00	@ 50 00	32 00 @ 46 00	45 00 @ 55 00
" white	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	35 00 @ 50 00	57 50 @ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	35 00 @ 50 00	@ 65 00
Redwood	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
Rosewood ₱ lb.	@ 6		@ 7	
Spruce floors (clear, kiln-dried)		32 00 @ 35 00		
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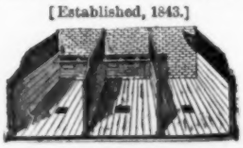

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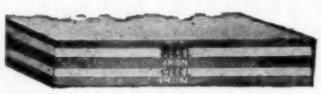

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Milwaukee			25 00 @	Dom. @ 65
Moulded:			60 00 @ 100 00	@ 85
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" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor 2 50 @ 2 75
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 75 @ 2 85
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	Josson 2 60 @ 2 75
" " (Vorwohler)	2 50 @ 2 90	Cleopatra 2 55 @ 3 00	@	3 00 @ 3 25
" " (Lagerdofer)	@	3 00 @ 3 50	2 75 @ 3 00	2 75 @ 2 85
" " (Dyckerhoff)	2 90 @ 3 25		3 25 @ 3 50	
" " (Hanover)	2 50 @ 3 00		*Not sold.*	
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	2 70 @ 3 00
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	3 00 @ 3 50
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	6 50 @ 7 00
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	8 00 @ 9 00
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	
Lime:				
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush 25 @ 30
Hydraulic Lime	@ 1 45	@ 1 35		White Mash 1 25 @ 1 50
Chicago Lime in bulk		St. John 1 00	55 @	1 00 @ 1 00
Wisconsin Lime			60 @	
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ *bush*	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		35 @ 60	75 @ 1 50
Serpentine	@	10 50 per ton	@ 1 00	₱ Perch @ 4 50

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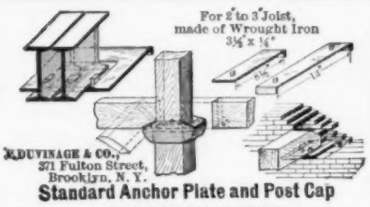

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Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in. th. 10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	55 @ 1 00
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" green	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" purple	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" red	4 25 @ 4 75	@	6 25 @ 6 85	225 @ 4 00
" black, Lehigh	@	@	7 30 @ 8 00	00 @ 4 65
" " Chapmans	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
" Unfading black, Monson, Me	@	@	*Not Sold.*	@ 25 00
Tiles, Am ...℔ M.	@	@	@	6 00 @ 6 75
N. Peach Bottom, warranted unfading.				
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	41 @ 42	57 @ 60	@ 60
" " boiled (℔ gal.)	58 @ 65	44 @ 45	60 @ 63	@ 63
Turpentine (℔ gal.)	36 @ 37	@ 33	51 @ 51	@ 44
Varnish, coach (℔ gal.)	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac (℔ gal.)	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting (dry)	75 @ 1 00	1 @ 1½	1 @ 1½	¾ @ 1
Paris white, (Eng.) (dry)	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am (dry)	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per ℔ 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask 2 90 (all kinds.)
Butts: 4" x 4" (℔ doz. pairs.)	@ 1 00	@ 1 20	@ 90	@ 90
Plain	@ 1 50	@ 1 75	*Not Sold.*	1 35 @ 2 00
Japanned	@ 1 50	@ 1 90	2 00 @ 3 75	1 35 @ 2 75
Acorn, Japanned	@ 65	@ 50	*Not Sold.*	48 @ 50
Ball Tip, Boston Finish (℔ pair.)	@ 1 90	plain 1 65	2 00 @ 3 25	@ 1 25
Bronze metal	@ 10	@ 10	@ 12	@ 1 00
Brass (for cupboards.)	@	@	@	@ 1 00
Ebony	@	@	@	@ 35
Apple wood	@	@	@	37 @ 1 00
Knobs: (℔ *set.*)	@ 8	@ 8	8 @ 10	@ 08
Mineral, best	@ 50	@ 75	65 @ 80	*Not Sold.*
Lava	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Hematite	@ 30	@ 10	25 @ 30	@ 25
Porcelain	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, solid	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Glass, silvered	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Bronze metal	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Brass	@	@	13 @ 16	13½ @ 16
Solder:	@	@ 7½	@ 7	@ 6½
Sheet Lead	@	@ 6½	@ 6½	6 @ 6
Lead Pipe				
Iron:	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, up to and including 36 ft.	@	@	3 20 @ 3 70	@ 2 8-10
I-Beams, over 30 ft. ¼, ½, ¾ c. advance	@	@ 3 4-10	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½			

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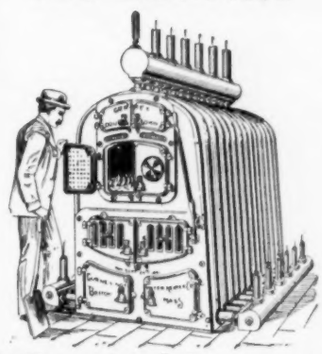

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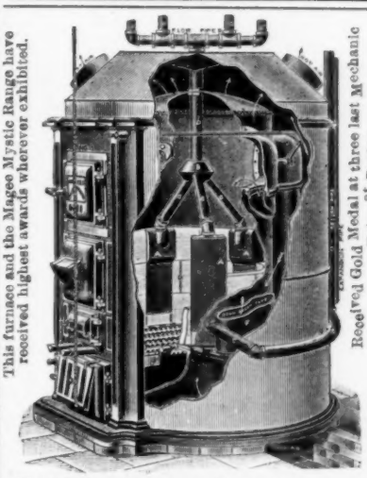

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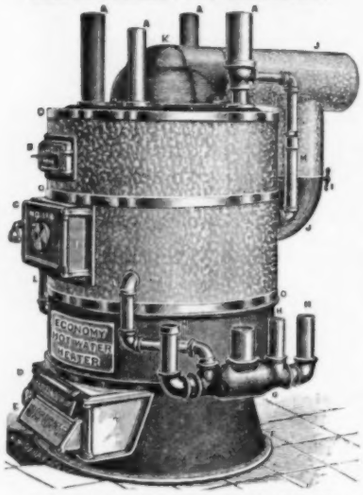

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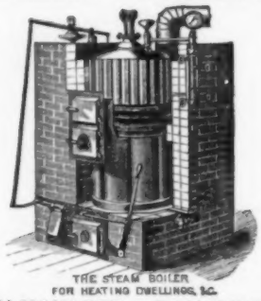

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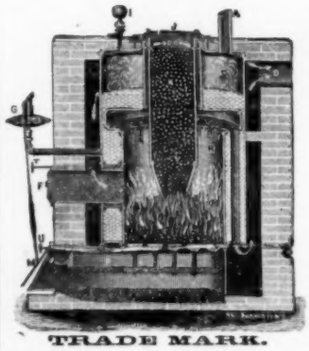

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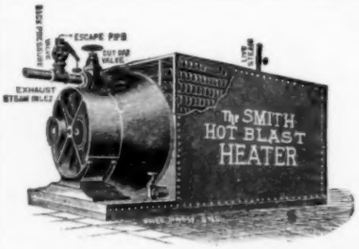

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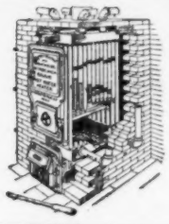

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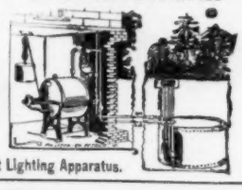

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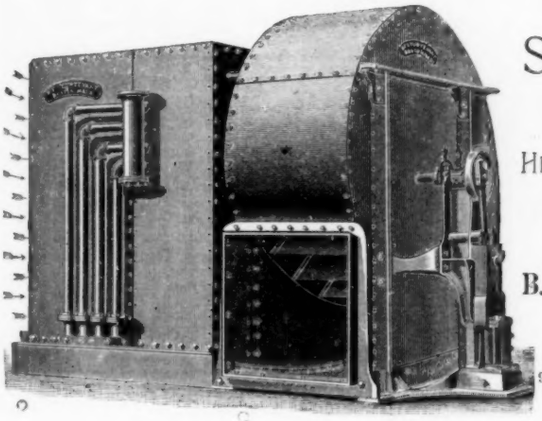

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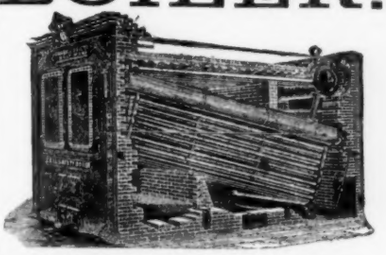

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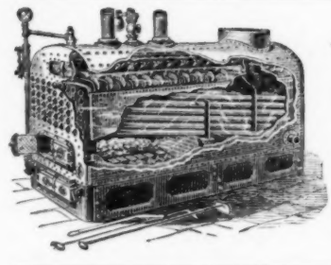

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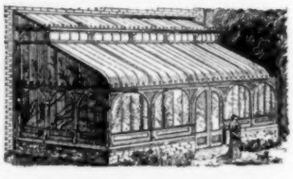

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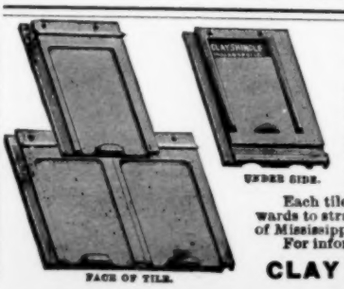

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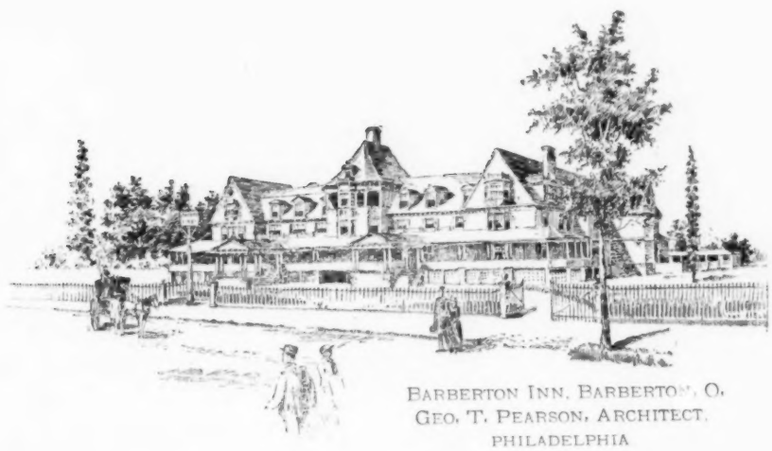

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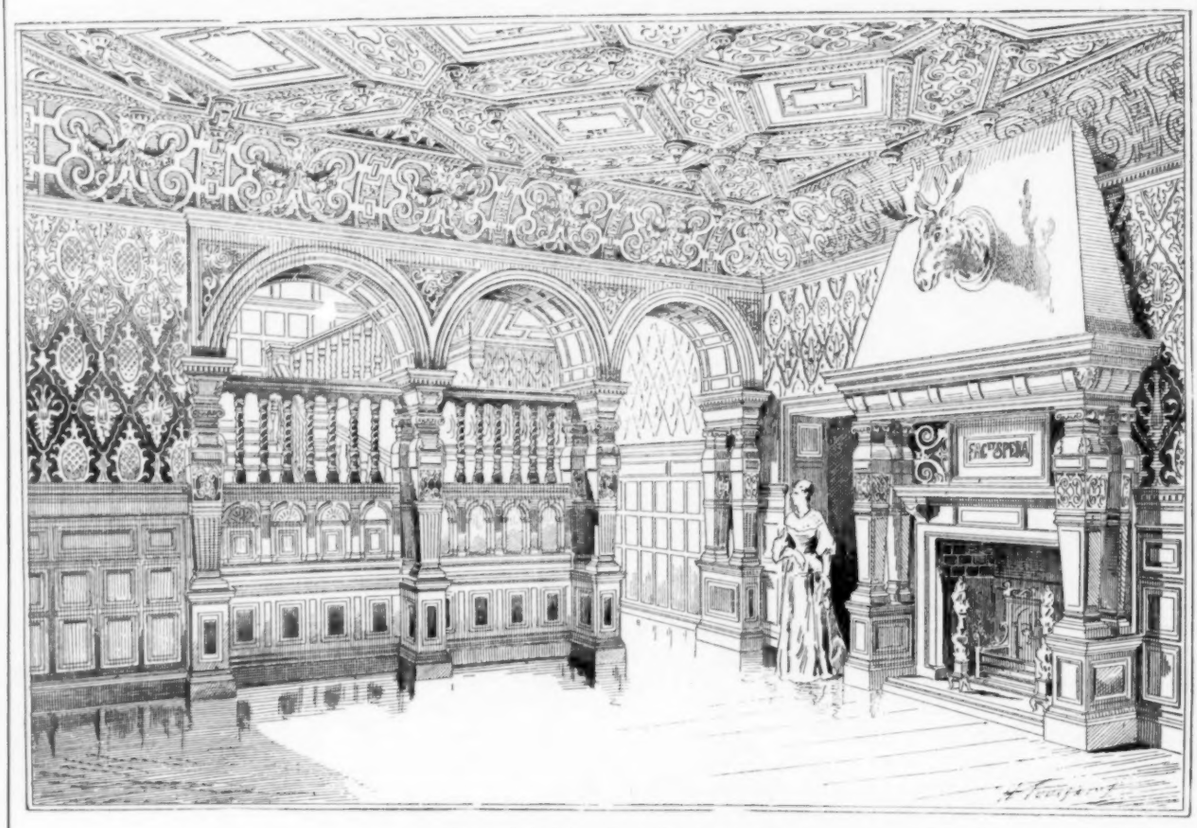

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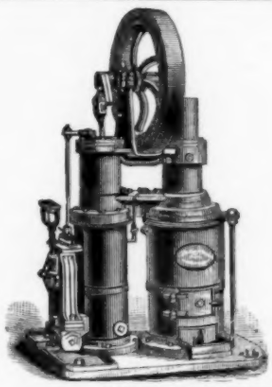

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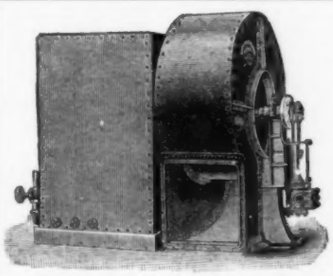

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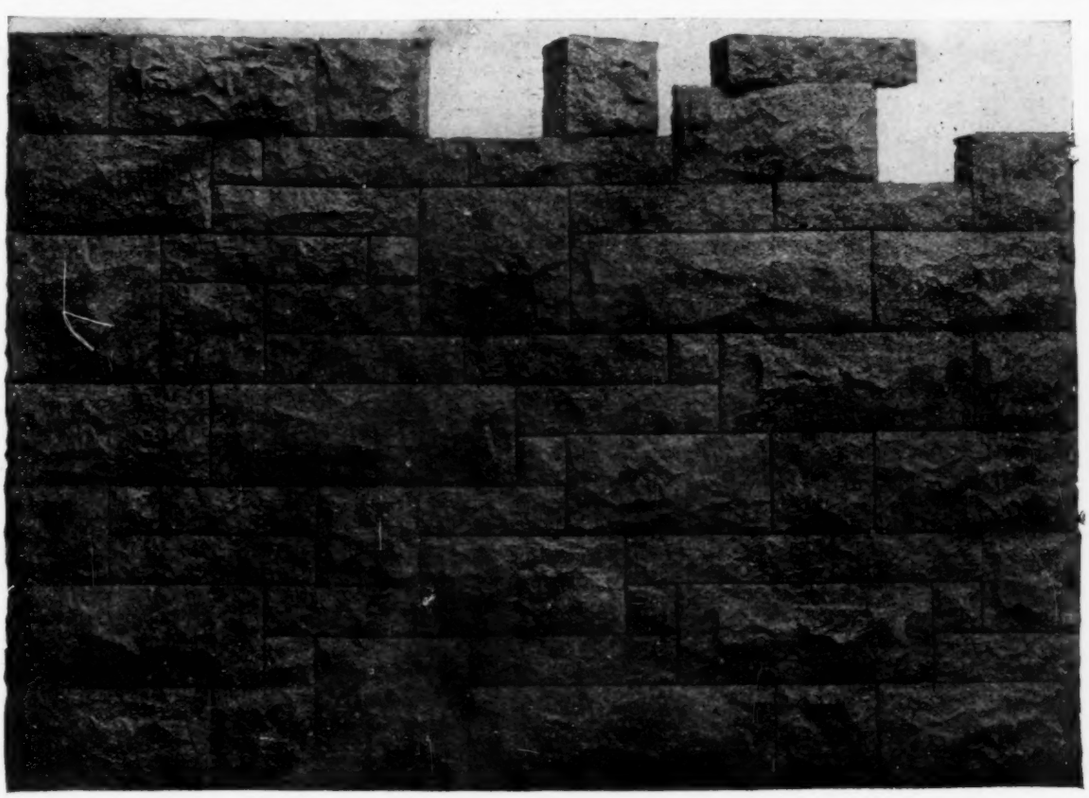

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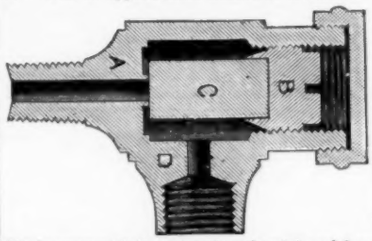

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See the first issue of the month for the following advertisements.

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New Advertisements.

W. & J. SLOANE (New York, N. Y.), Linoleum. Page iv.

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[*Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.*]

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481,557. Latch. — Cyrille Gagnon and Louis Lefebvre, Montreal, Canada.

481,562. Kiln. — Philip J. Handel, Meriden, Conn.

481,577. Elevator. — Thomas Mason, Topeka, Kans.

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481,606. Filter. — James M. Wasson, Peoria, Ill.

481,622. Sash-Holder. — Stephen B. Morse, Rahway, N. J.

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481,700. Brick. — Philip S. Loveridge, Knoxville, Pa.

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481,705. Shutter-Worker. — Nehemiah Saltmarsh, Concord, N. H.

481,710 Flush-Tank. — Benezette Williams and Charles Poore, Chicago, Ill.

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481,724. Roofing and Siding Screw or Fastening. — Rollin B. L. Westover, Rutland, Vt.

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481,742. Gas Heater or Radiator. — Arnovitz Wolff, New York, N. Y.

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481,761. Water-Closet. — Smith E. Hughes, Philadelphia, Pa.

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481,798. Door-Closer. — Addison D. Lodge, Vandalia, Ohio.

481,813. Metallic Ceiling. — William W. Old and Robert H. Old, Leadville, Colo.

481,845. Laundry Drying-Room. — John E. Chappell, San Francisco, Cal.

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481,915. Jail-Grating. — Godfrey L. Norrman, Atlanta, Ga.

481,917. Transom-Lifter. — John F. Wollensack, Chicago, Ill.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING SEPTEMBER 9, 1892.

From Antwerp. — Steamer "*Waesland*," 750 barrels cement, E. Thiele; 500 do., Morris Ebert; 100 girders, Brown Bros. & Co.; 477 iron girders, R. F. Downing & Co.; 1 case bronze statue, Chicago Park

(*Continued on page* xv.)

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From Bremen.— Steamer "*Darmstadt*," 2,968 casks Portland cement, order. Ship "*Theodor Fischer*," 7,008 cakes asphalt, 952 casks cement, Baetjer & Meyerstein; a lot of rock asphalt, Gabriel & Schall; 4,024 cakes asphalt, Chas. W. Saacke.

From Glasgow. — Steamer "*City of Rome*," 5 cases granite, G. W. Sheldon & Co. Steamer "*Corean*," 18 blocks stone, G. P. Sherwood; 300 cases granite, Austin, Baldwin & Co.; 5 do., Chas. H. Clark; 10 do., R. F. Downing & Co.; 6,000 fire bricks, order.

From Hamburg. — Steamer "*Rugia*," 560 casks cement, 550 barrels Portland cement, order.

From Havana. — Steamer "*Saratoga*," 98 sacks asphaltum, H. W. Peabody & Co.

From Leghorn.—Steamer "*Alsatia*," 1 block yellow marble, Patterson, Lee & Co.; 28 blocks marble, Pells & Co.

From Liverpool. — Steamer "*Bovic*," 315 casks bricks, Howard Fleming. Steamer "*Britannic*," 171 casks bricks, Meeker & Carter.

From London. — Steamer "*Persian Monarch*," 650 casks cement, Bank of British North America; 510 do., E. Thiele; 510 casks cement, order. Steamer "*Massachusetts*," 2,600 casks cement, Baring Bros. & Co.; 100 do., Brown Bros. & Co.

From Manzanilla. — Bark "*Lillian*," 293 logs mahogany, 1,393 do., order.

From Marseilles. — Steamer "*Cachemire*," 250 barrels cement, James Brand.

From Santa Cruz.—Schooner "*Benjamin Courtney*," 2,367 logs mahogany, order.

From St. John, N. B. — Schooner "*Clifton*," 2,526 barrels lime, 301,100 laths, Chase, Talbot & Co.

From Vera Cruz. — Steamer "*Orizaba*," 98 blocks marble, E. Zarang & Co.; 7 do., American Rose Garnet Co.; 191 do., O'Kelly & Co.

From Zaza.— Bark "*Monrovia*," 1,599 logs cedar, H. W. Ericks.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

ALTERATIONS.

Chicago, Ill. — L. Silverman, three-st'y addition, 2213 Calumet Ave.; cost, $7,000.

Pennsylvania Co., 2 two-st'y additions to railroad depot, 186-188 Canal St.; cost, $50,000.

Herman Solomon, three-st'y addition, 402 Clybourne Ave.; cost, $3,000.

O. Thiell, two-st'y addition, 426 West Superior St.; cost, $3,000.

Mrs. T. Kormick, four-st'y addition, 903 Homan Ave.; cost, $5,000.

Lassing Bridge and Iron Works, one-st'y addition to factory, Clybourne Ave. and Wrightwood St.; cost, $3,000.

Edward Speakman, three-st'y addition, 484-486 West Adams St.; cost, $5,400.

W. E. Olson, addition, 425 Claremont Ave.; cost, $3,000.

J. Ziegler, two-st'y addition, 624 Wood St.; cost, $3,000.

New York, N. Y.— *West Twenty-first St., No.* 44, four-st'y brick dwell., extension and interior changes; cost, $4,000; owner, Susan Tuckman, Tuxedo, N. Y.; builders, J. C. Hoe's Sons, 10 Liberty St.

East Forty-sixth St., No. 12, four-st'y brick dwell., interior alterations and changes; cost, $5,000; owner, Leon Marie, Spuyten Duyvil, N. Y.; architects, Renwick, Aspinwall & Renwick, 71 Bowery.

Seventh Ave., No. 838, four-st'y brick dwell., extension; cost, $5,000; owner, A. Luido, 1205 Broadway; architect, M. C. Merritt, 1267 Broadway.

First Ave., Nos. 652-656, five and seven st'y brick factory, interior alterations; cost, $7,000; owner, P. Skelly, 409 West Fourteenth St.; architects, Lederle & Co., 1525 Whitehall St.

Cedar St., No. 2, cor. West St., five-st'y brick factory, tin roof, internal alterations; cost, $10,000; owner, L. Napoleon Levy, 32 Nassau St.; architect, James M. Farnsworth, 119 Nassau St.

Forty-fifth St., s s, 220′ e First Ave., one-st'y brick factory, extension and new elevator; cost, $6,000; owners, Schwartzchild & Sutsberger, Forty-fifth St. and East River; architects, A. B. Ogden & Son, 1031 Madison Ave.

One Hundred and Thirty-first St., s s, 225′ e Seventh Ave., one-st'y brick church, extension and internal changes; cost, $6,000; owner, Baptist Church of Redeemer, 124 West One Hundred and Thirty-first St.; architect, Alfred H. Taylor, 2335 Seventh Ave.

Seventy-first St., s s, 172′ 7″ e Boulevard, one-st'y brick church, extension, tin roof; cost, $20,000; owner, Rev. Mathew A. Taylor, 144 West Seventy-first St.; architect, Joseph H. McGuire, 171 Broadway.

Boulevard, n w cor. Seventy-first St., one-st'y brick church, extension and internal changes; cost, $35,000; owner, Christ Church, 34 West Forty-eighth St.; architects, Renwick, Aspinwall & Russell, 71 Broadway.

Philadelphia, Pa.—*Fourth St.*, above Chestnut St., plans have been prepared by G. W. & W. D. Hewitt, architects, Builitt Building, for the enlargement of the Fidelity and Safe Deposit Company's building.

Broad and Sansom Sts., alterations and additions to Hotel Lafayette; architects, Cope & Stewardson, 316-322 Walnut St.

St. Louis, Mo. — Two-st'y brick front; cost, $4,000; owner, Chas. W. Prague; contractors, Hemminghaus & Vollmer.

Two-st'y brick addition to factory; cost, $4,000; owner, Flohr Walter Candy Co.; contractor, P. Moynihan.

Alterations; cost, $4,000; owner, Jos. Dickson; contractors, Tranel & Swers.

West Philadelphia, Pa.—Alterations and additions to the Allison Car Works; architect, W. Bleyden Powell, 423 Walnut St.

APARTMENT-HOUSES.

Chicago, Ill. — R. Brandt, two-st'y flats, 395 Hastings St.; cost, $5,000.

Mary Lang, four-st'y flats, 480 Sedgewick St.; cost, $6,000.

Mrs. E. Murphy, two-st'y flats, 2063 Lexington St.; cost, $5,500.

P. Curtin, two-st'y flats, 659 West Twentieth St.; St.; cost, $3,500.

F. I. Bennett, 7 four-st'y flats, 6009-6013 South Park Ct. and 290-292 Sixtieth St.; cost, $83,000.

Observatory Hotel Co., five-st'y apartment-building, 246-264 Sixty-fourth St.; cost, $150,000.

V. Mayschak, two-st'y flats, 8350 Mackinaw Ave.; cost, $45,000.

James W. Jackson, two-st'y flats, 637 Chestnut St.; cost, $5,200.

David Corbin, 4 four-st'y flats, 569-575 Fifty-first St.; cost, $80,000.

Lewis Olson, two-st'y flats, 181 Seymour St.; cost, $3,000.

V. Steinberger, three-st'y flats, 131 De Koven St.; cost, $5,000.

J. Queeney, three-st'y flats, 6228 Calumet Ave.; cost, $11,000.

A. H. Folsom, 2 two-st'y flats, 7141-7143 Emerald Ave.; cost, $3,000.

Michael O'Connor, two-st'y flats, 748-750 Forty-fifth St.; cost, $5,000.

Frank Wurmsted, two-st'y flats, 4205 Armour Ave.; cost, $3,000.

P. B. Hultman, two-st'y flats, 5762 Atlantic St.; cost, $4,000.

John Cain, two-st'y flats, 2849 Emerald Ave.; cost, $5,000.

Peter Ress, two-st'y flats, 1280 Wilcox Ave.; cost, $3,300.

E. T. Nicholas, three-st'y flats, 6348 Lexington Ave.; cost, $8,000.

E. S. Snyder, three-st'y flats, 2191 Wilcox Ave.; cost, $9,000.

M. J. Williamson, three-st'y flats, 5839 Drexel Ave.; cost, $5,500.

Claus A. Carlson, two-st'y flats, 5925 Emerald Ave.; cost, $3,500.

Henry Oscorr, two-st'y flats, 6411 Emerald Ave.; cost, $3,000.

James McFarland, two-st'y flats, 816-818 Gunn St.; cost, $5,000.

George Fairweather, four-st'y flats, 363 West Indiana St.; cost, $10,000.

Charles Stanger, two-st'y flats, 890 Hinman St.; cost, $3,000.

Henry Dettmer, two-st'y flats, West Court and George Sts.; cost, $5,000.

John Lavender, two-st'y flats, 6147-6149 Woodlawn Ave.; cost, $8,500.

Henry Steinman, two-st'y flats, 6016 Justine Ave.; cost, $3,000.

J. A. Johnson, two-st'y flats, 256 Homer St.; cost, $3,000.

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BUILDING INTELLIGENCE.

apartment-houses; owner, W. A. Kneeland; architect, J. W. M. Parks, 689 Wellington St.

New York, N. Y. — *West Fortieth St., No.* 452, five-st'y brick flat, tin roof; cost, $20,000; owner, L. K. Ungrich, 260 West One Hundred and Thirty-fifth St.; architect, M. V. B. Ferdon, 265 West Thirty-fourth St.

Madison Ave., s w cor. Ninety-fifth St., seven-st'y brick flat, tin roof; cost, $96,000; owner, William Mathews, 248 Woodworth Ave., Yonkers; architect, John C. Burne, 101 West Forty-second St.

St. Louis, Mo. — Two-st'y brick flat; cost, $2,800; owner, B. Armour; contractor, Aug. Vogt.

CHURCHES.

Camden, N. J. — Two-st'y stone church, slate roof, for the First M. E. Church; architect, Thomas P. Lonsdale, Fourth and Chestnut Sts.

Ninth St., n Ferry Ave., frame church; builder, Charles Johnson.

Sixth St., s w cor. Stevens St., two-st'y stone church; builder, W. C. Kean.

Montreal, Can. — *Wellington St.*, Grace Church; pastor, Rev. John Ker, B. D., 458 Wellington St.; architect, John James Browne, 207 St. James St.

Paterson, N. J. — Plans have been made for a Jewish synagogue for the B'nai Jeshmun congregation; cost, about $40,000; architect, John H. Post.

Philadelphia, Pa. — *Seventeenth and York Sts.*, church for the West York Methodist Church; pastor, Rev. Henry Frankland; architect, Frank R. Watson, 518 Walnut St.

Tinicum St., w s, s Eighty-fifth St., brick church; builder, Charles S. Kates, Seventy-ninth and Brewster Sts.

Red Bank, N. J. — Stone church, slate roof, for the Baptist congregation; architect, W. B. Tuthill, 52 Broadway, New York City.

FACTORIES.

Camden, N. J. — *South Seventh St., No.* 1738, frame factory; owner, John J. Greenman, 1324 Passyunk Ave., Philadelphia.

New York, N. Y. — *East Eighty-fourth St., No.* 261, three-st'y brick factory, gravel roof, cost, $4,000; owner, George W. Corson, 208 East Eighty-sixth St.; architect, Charles Stegmayer, 306 East Eighty-second St.

Philadelphia, Pa. — *Westmoreland St.*, n s, w Frankford Ave., four-st'y brick factory; builders, Dickinson Bros., 3045 Frankford Ave.

Collins St., s s, e Fox St., three-st'y brick factory; builder, W. G. Barnes, 3384 Frankford Ave.

Thirty-fifth St. and Gray's Ferry Road, 2 one-st'y and two-st'y factory buildings; owners, Harrison Bros.' Co., Thirty-fifth St. and Gray's Ferry Road.

Adams St., s s, s e Kensington Ave., three-st'y brick factory; builders, Stewart Bros., 2527 North Fifth St.

Hancock St., w s, n Lehigh Ave., one-st'y brick factory; owners, Jno. M. Buchanan & Bro., 1618 Vienna St.

Thirty-sixth St., n e cor. Wharton St., one-st'y brick factory; builder, S. H. Morrison, Cooper St., Camden, N. J.

HOUSES.

Boston, Mass. — *Minot St., No.* 11, *and Wall St.*, Ward 8, four-st'y brick dwell. and store, flat roof, 17′ x 55.6′; owner, Morris Gutlow; builder, H. I. Slatkin.

Sydney Pl., near Waterlow St., Ward 24, frame dwell., 22′ x 32′; owner and builder, W. A. Davidson.

Marginal St., Nos. 286 to 294, Ward 2, 5 three-st'y frame dwells., flat roofs, 20′ x 34.6′; owner and builder, John McCormick.

Townsend St., near Washington St., Ward 21, frame dwell., 28′ x 38′; owner, Geo. Harvey; builders, Ourish & Rich.

Wenham St., near Weldon St., Ward 23, frame dwell., 29′ x 42′; owner, Geo. Harvey; builders, Woodbury & Leighton.

Rockville St., near Blue Hill Ave., Ward 24, frame dwell., 23′ x 32.6′; owner and builder, J. Morrison.

Vermont Ave., near Corey St., Ward 23, frame dwell., 32′ x 52′; owner and builder, Jason S. Bailey.

Edgewood St., near Warren St., Ward 21, 3 three-st'y frame dwells., flat roofs, 22′ x 41′, 25.6′ x 40′, 25.6′ x 28′; owner, Thomas H. Connolly; builder, Wm. Swanson.

Murdock St., near Sparhawk St., Ward 23, frame dwell., 28′ x 44′; owner, Margaret McCabe; builder, James Muldoon.

Columbia St. and Geneva Ave., Ward 24, frame dwell., 38′ x 52.6′; owner, B. R. Wales; builders, W. H. Haddock & Co.

Adams St., opp. Frederika St., Ward 24, frame dwell., 30′ x 39′; owner and builder, James F. Jones.

Ocean St., near Wells Ave., Ward 24, frame dwell., 24.6′ x 36′; owner, Joel H. Smith; builder, H. H. Haddock.

Richmond St., near Dorchester Ave., Ward 24, frame dwell., 28′ x 31′; owner, Lower Mills Baptist Church Society; builder, S. D. Chute.

Parker St., near opp. Parker Hill Ave., Ward 22, three-st'y frame dwell., flat roof, 22.6′ x 42′; owner, Thomas O'Leary; builder, J. H. Pierce.

Algonquin St., near Washington St., frame dwell., 28′ x 40′; owner, Charles T. Ripley; builder, G. T. Fletcher; architects, Lord & Fuller.

Grotto Glen, near Day St., Ward 22, frame dwell., 23′ x 32′; owner, Dennis Lyons; builder, M. J. O'Brien.

Brookline, Mass. — *Beaconsfield Terraces*, brick and marble block of six dwells., 55′ x 128′; owner, E. R. Knapp; builders, Morton & Chesley; architects, Fehmer & Page, Boston.

Brooklyn, N. Y. — *Harrison Pl.*, n s, 200′ w Morgan Ave., three-st'y frame dwell., tin roof; cost, $4,800; owner, Wm. Schumann, 234 Beerum St.; architect, Th. Engelhardt, 905 Broadway.

Baltic St., s s, 175′ e Smith St., five-st'y brick dwell., tin roof; cost, $10,000; owner, Frederick Laken, 77 Woodhull St.; architect and builder, Ola Nelsson, 77 Woodhull St.

Hancock St., s s, 375′ e Reid Ave., 4 two-st'y brick dwells., tin roofs; cost, $4,000; owner, Arthur B. Gritman, 250 Keap St.; architect, W. H. Gaylor, 110 South Eighth St.

Van Siclen Ave., w s, 95′ s Eastern Parkway, 17 two-st'y brick dwells., tin roofs; cost, $2,500 each; owner, S. A. R. Cox, Van Siclen and Belmont Aves.

Forty-sixth St., n s, 320′ e Fourth Ave., 3 two-st'y frame dwells., tin roofs; cost, $3,000 each; owner, architect and builder, H. C. Bull, Blythebourne, L. I.

Camden, N. J. — *Seventh St.*, s e cor. Sylvan St., 2 two-st'y frame dwells.; owner, Gifford Stubbs.

Chestnut Hill, Pa. — *Rex Ave.*, stone dwell.; architect, M. Fielding, 110 South Fourth St., Philadelphia; owner, H. S. Jeans, Esq.

Chicago, Ill. — P. A. Thompson, three-st'y dwell., 2120 Dearborn St.; cost, $7,000.

A. H. Hill, two-st'y dwell., Selwin Ave. and Willis St.; cost, $5,300.

H. McCormick, five cottages, 2149-2157 Fiftieth St.; cost, $3,500.

Herman Arnold, three-st'y dwell. and barn, 1826 Wellington St.; cost, $30,000.

Louis C. Dechent, two-st'y dwell., 3186 California Ave.; cost, $5,200.

J. Zunnsstka, two-st'y dwell., 800 West Taylor St.; cost, $4,000.

T. B. Belle, three-st'y dwell., 4816 Champlain Ave.; cost, $5,000.

James Storen, two-st'y dwell., 6349 Evans Ave.; cost, $3,000.

J. W. Young, two-st'y dwell., 619 Sixty-sixth Ct.; cost, $4,500.

Germantown, Pa. — Two-st'y stone dwell., shingle roof; owner, Mrs. Davis; architect, M. Fielding, 110 South Fourth St., Philadelphia.

Upsal St., brick and stone Queen Anne dwell., slate roof; architect, Harold Godwin, 905 Walnut St., Philadelphia.

Lewistown, Mifflin Co., Pa. — *Chestnut St.*, frame dwell.; cost, $3,500; owner, H. A. Felix; architect, J. F. Stetler, Middleburg, Pa.

Lexington, Mass. — Frame dwell., 41′ x 47′, with L 17′ x 18′; owner, Daniel G. Tyler; builders, N. S. & J. H. Wood; architect, W. Whitney Lewis, Boston.

Montreal, Can. — *Dorchester St.*, dwell.; owner, John James Browne, 207 St. James St.

Ontario Ave., dwell.; owner, David Yuile; architect, John James Browne, 207 St. James St.

BUILDING INTELLIGENCE.

Amherst St., two dwells.; owner, J. Gaudet; architect, A. Dubreuil, 1608 Notre Dame St.

New York, N. Y. — *Eighty-eighth St.*, n s, 175′ w West End Ave., 5 four-st'y brick dwells., tin roofs; cost, $60,000; owner, James Cruikshank, 338 Potter Building; architect, A. E. Fischer, 38 Park Row.

Webster Ave., w s, 450′ s Scott Ave., three-st'y brick and frame dwell., tin roof; cost, $4,000; owner, Thomas Basel, 608 St. Ann's Ave.; architect, F. J. Miller, 727 East One Hundred and Sixty-third St.

Briggs Ave., w s, 200′ n Boulevard, three-st'y stone and frame dwell., peak shingle roof; cost, $6,000; owner, Mrs. L. H. Moore, 90 West One Hundred and Third St.; architect, Chas. T. Mott, 169 Broadway.

Sherwood Pl., s s, 123′ w Prospect Pl., three-st'y brick and frame dwell., peak shingle roof; cost, $4,220; owner, Zelie Wallace, Elm Ave. and South Boulevard; architect, J. J. Vreeland, 711 East One Hundred and Seventy-seventh St.

One Hundred and Forty-fifth St., s s, 165′ w Brook Ave., three-st'y brick dwell., tin roof; cost, $6,000; owner, Elizabeth Mallon, 726 East One Hundred and Fortieth St.; architects, Neville & Bagge, 250 West One Hundred and Twenty-fifth St.

Seventh Ave., n e Fifty-seventh St., 7 three-st'y brick dwells., tin roofs; cost, $140,000; owner, Geo. W. Helene Henrietta, New Jersey; architect, Jas. J. F. Gavigan, 835 Broadway.

One Hundred and Forty-seventh St., n s, 300′ w St. Nicholas Ave., 2 four-st'y brick dwells.; cost, $13,000; owner, John G. Moore, Amsterdam Ave. and One Hundred and Eighty-first St.; architect, Fred S. Schlesinger, One Hundred and Sixty-seventh St.

Sedgwick Ave., w s, 536′ n Cedar St., three-st'y brick and frame dwell., peak shingle roof; cost, $9,000; owner, John J. Armory, Morris Heights; architect, Adam Jager, Cornwall, N. Y.

Philadelphia, Pa. — *Logan Station*, facing York Road, three-st'y stone dwell., slate roof; owner, Louis Deitrich; architect, W. C. Pritchett, 1430 South Penn Square.

Westminster Ave., n s, w Fifty-third St., two-st'y brick dwell.; builder, M. F. Bukley, 4206 Lancaster Ave.

Mt. Pleasant St., n s, w Emlen St., three-st'y brick dwell.; owner, John Owens, 73 Sharpnack St.

Branch St., w s, n Limekiln Pike, two-st'y brick dwell.; owner, Francis McGill, Branchtown.

Indiana Ave., s s, w Kensington Ave., 13 three-st'y brick dwells.; owner, Terrence Fitzpatrick, 3013 Kensington Ave.

Kensington Ave., w s, s Indiana Ave., 17 three-st'y brick dwells.; owner, Terrence Fitzpatrick, 3013 Kensington Ave.

PUBLIC BUILDINGS.

Chicago, Ill. — *Michigan Ave.*, bet. Randolph and Washington Sts., stone public library, 140′ x 300′; builders, Morse & Arnold; architects, Shepley, Rutan & Coolidge, Boston.

RAILROAD-BUILDING.

Painesville, O.—Stone railway station, for the Lake Shore & Michigan Southern Railroad; architects, Shepley, Rutan & Coolidge, Boston.

Sandusky, O. — Stone railway station, for Lake Shore & Michigan Southern Railroad; architects, Shepley, Rutan & Coolidge, Boston.

South Manchester, Conn.—Frame railroad station; architects, Shepley, Rutan & Coolidge, Boston.

SCHOOL-HOUSES.

New York, N. Y.—*Kingsbridge Ave.*, w s, 360′ n Riverdale Ave., one-st'y brick and frame school, peak shingle roof; cost, $5,000; owner, Church of the Mediator, Kingsbridge; architect, Samuel L. Berrian, Kingsbridge.

East Fiftieth St., No. 20, five-st'y brick school; cost, $8,000; owner, Andrew J. Garvey, 18 East Fiftieth St.; architects, James M. Macgregor & Co., 19 Liberty St.

Pepperell, Mass. — Brick school-house, four rooms, hip roof, 55′ x 66′; contract to be let; architect, W. W. Lummus, Boston.

Philadelphia, Pa.— *Marshall St.*, n e cor. Somerset St., two-st'y brick school-house; builder, P. H. Somerset, 1513 North Twelfth St.

STABLES.

Boston, Mass.—*Appleton Road*, near Lake St., Ward 25, frame stable, 29′ x 30′; owner, Brookline Artificial Ice Co.; builders, W. Fillmore & Co.

Argyle Road, near Chiswick Road, Ward 25, frame stable, 26′ x 40′; owner, J. M. Childs; builder, F. W. Stevens.

Savin Hill Ave., rear No. 299, Ward 24, frame stable, flat roof, 26′ x 36′; owner and builder, Jesse M. Duncan.

Farrington Ave., rear, near Linden St., Ward 25, frame stable, 33′ x 43′; owner and builder, F. L. Whitcomb.

New Heath St., near Bickford St., Ward 22, two-st'y frame stable, flat roof, 44.4′ x 120′; owners, J. R. Alley & Son; builders, Fortman & Marston.

Minot St., rear, No. 114, Ward 24, frame stable 22′ x 28′; owner, Maria O'Reilly; builder, E. J. Vickery.

Cambridge St., rear, nearly opp. North Harvard St., Ward 25, one-st'y frame stable and storage, 20′ x 60′ and 60′ x 420′; owner, Boston & Albany Railroad Corporation; builders, J. A. & A. D. Rice and I. G. Wheeler.

Dunboy St., rear, near High St., Ward 25, frame stable, 36′ x 42′; owner, Helen M. Parker; builder, V. M. Cutler.

Poplar St., rear, opp. Brown Ave., Ward 23, frame stable, 22′ x 28′; owner, M. H. Flanagan; builder, J. M. Kelly.

Centre St., No. 87, *rear*, Ward 21, one-st'y rock wagon shed, flat roof, 30′ x 60′; owners, H. & J. Pfaff; builder, George M. Schell.

Brooklyn, N. Y. — *Ross St., No.* 143, three-st'y brick stable and dwell., gravel roof; cost, $5,000; owner, John Mollerbaum, 156 Ross St.

Camden, N. J. — *Vine St., No.* 617, *rear*, one-st'y brick stable; owner, Morris Fithian, 700 Vine St.

Somerville, Mass. — *Allen St., No.* 20, frame stable, 18′ x 20′; owner, M. Simas; builder, L. Murphy.

Vernon St., frame stable; owner, W. P. Hammer; builder, C. C. Emerson.

Vernon St., frame stable, 17′ x 23′; owner, W. P. Hammer; builder, C. C. Emerson.

Derby St., near Sydney St., frame stable, 30′ x 32′; owner, John O'Shaughnessy; builder, Robert Bennett.

Linwood St., No. 136, near Medford St., frame stable, 18′ x 24′; owner and builder, Patrick McGill.

St. Louis, Mo. — One-st'y brick stable; cost, $2,900; owner, Wm. Waters; contractor, Ferd Zimmerman.

STORES.

Boston, Mass.—*Buckingham St., Nos.* 49 to 51, Ward 11, two-st'y brick store, flat roof, 24′ x 40′; owners, R. T. & C. J. Paine; builder, James Fayan.

Chelsea St., cor. Marion St., Ward 1, frame store, 23′ x 50′; owner, J. E. Bennett.

Brooklyn, N. Y. — *Third Ave.*, s w cor. Tenth St., four-st'y brick store and flats, tin roof; cost, $10,000; owner and builder, John M. O'Neil, 381 Second St.; architects, I. D. Reynolds & Son, 363 Fulton St.

Bushwick Ave., w s, 25′ n Kossuth Pl., four-st'y brick store and dwell., tin roof; cost, $12,000; owners, Beers & Schaffner, Flushing Ave.; architect, Frank Holmberg, 1169 Broadway.

Bushwick Ave., n w cor. Kossuth Pl., four-st'y brick store and dwell., tin roof; owners, Beers & Schaffner, Flushing Ave.; architect, Frank Holmberg, 1169 Broadway.

Atlantic Ave., n s, 103′ w Williams Ave., two-st'y frame store and dwell., tin roof; cost, $3,500; owner, John Post, cor. West and West Tenth Sts., New York City; architect, Louis F. Heinecke, 62 Bowery, New York City.

Fulton St., s w cor. Flatbush Ave., ten-st'y brick store, tin roof; cost, $225,000; owners, M. F. Smith & G. H. Randolph, Broadway and Bedford Ave.; architect, P. J. Lauritzen, 18 East Twenty-third St., New York City.

Livornia Ave., n e cor. Christopher St., and *Livornia Ave.*, n w cor. Sackman St., 2 three-st'y frame stores and dwells., tin roofs; cost, $3,200 each; owner, C. Borman, Ellery Ave.; architects, Danmar & Fischer, Atlantic and Van Siclen Aves.

Osborne St., s e cor. Sutter Ave., 2 three-st'y frame stores and dwells., tin roofs; cost, $6,000 each; owner, A. Max, Osborne St.; architect, A. J. Warner, 258 Atlantic Ave.

Lorimer St., 125′ s McKibben St., four-st'y brick store and dwell., tin roof; cost, $9,000; owner, Philip Kreischer, Lorimer St , cor. Broadway; architects, David Acker & Son.

Camden, N. J. — *Ferry Ave., No.* 912, one-st'y frame store; owner, Geo. H. Matthews.

Chicago, Ill. — J. J. Walsh, 2 three-st'y stores and flats, 4431-4433 South Halsted St.; cost, $14,000.

Peter J. Clausen, four-st'y store and flats, 6219 Halsted St.; cost, $25,000.

H. A. Morse, 4 four-st'y stores and flats, 317-321 Sixty-third St.; cost, $30,000.

Martin Gass, two-st'y store and flats, Gardner and Fifty-fifth St.; cost, $6,000.

M. Baker, three-st'y store, 4410 Ellis Ave.; cost, $12,000.

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Lambert Tree, 2 two-st'y stores and flats, 2110 Wentworth Ave.; cost, $6,000.

William Tracy, 2 three-st'y store and flats, 557-559 Root St.; cost, $11,000.

Montreal, Can.—*Notre Dame St.*, two stores and two dwells.; owner, Thomas Lamb; architects, Perreault & Mesnard, 11 Place d'Armes Hill.

Bleury St., store and bakery; owners, W. & J. S. Wylie; architects, Wright & Son, 204 St. James St.

New York, N. Y. — *Thirty-seventh St.*, n s, 334′ w Ninth Ave., one-st'y brick store; cost, $6,000; owners, Emerald & Phœnix Brewing Co., 422 West Thirty-eighth St.; architect, George H. Griebel, 247 West One Hundred and Twenty-fifth St.

Gouverneur St., No. 218, five st'y brick store; cost, $38,000; owner, Wm. H. Hall, 61 West Fifty-sixth St.; architects, F. & W. E. Bloodgood, 8 York St.

Philadelphia, Pa. — *Chestnut St., No.* 722, four-st'y brick store; builder, George L. Sipps, 619 Walnut St.

South Eighth St., No. 126, four-st'y brick store; builder, R. W. Strode, 2131 Vine St.

South Twentieth St., No. 616, three-st'y brick store; builder, Lane Schofield, 2280 Madison St.

St. Louis, Mo. — Two-st'y brick store; cost, $5,000; owner, T. H. Westman; contractor, Aug. Winkle.

Two-st'y brick store; cost, $4,500; owners, F. W. Schulte & Bro.; contractors, Richers & Son.

Worcester, Mass.—*Vernon St.*, one-st'y frame store; owner and contractor, J. T. Gallagher.

TENEMENT-HOUSES.

New York, N. Y. — *Brook Ave., Nos.* 340, 342, 344, 3 four-st'y brick tenements, tin roofs; cost, $36,000; owner, Anna T. Dale, 641 Walton Ave.; architect, Wm. B. Dale, 641 Walton Ave.

One Hundred and Forty-fifth St., s s, 90′ w Brook Ave., four-st'y brick tenement, tin roof; cost, $12,000; owner, James Martin, 286 East One Hundred and Forty-second St.; architect, Albert E. Davis, 2533 Third Ave.

St. Louis, Mo. — Two-st'y brick tenement; cost, $4,650; owner, Mrs. M. Sieglingr; contractor, F. W. Loefflagen.

WAREHOUSES.

Philadelphia, Pa.—*Lehigh Ave.*, n s, w Fillmore St., 2 four-st'y warehouses; architect, Walter H. Geisinger, s w cor. Twelfth and Chestnut Sts.

MISCELLANEOUS.

Belmont, Mass. — Two two-st'y brick and stone buildings, pitch roof, one 112′ x 116′, other 68′ x 86′; fireproof construction; for the McLean Asylum; owner, Massachusetts General Hospital; builders, Connery & Wentworth; architects, Fehmer & Page, Boston.

Brooklyn, N. Y. — *Gwinnett St.*, n s, 125′ e Marcy Ave., one-st'y brick electrical plant, iron roof; cost, $40,000; owner, Edison Electric Co., 358 Pearl St.; architect, Chas. H. Thompson, 358 Pearl St.

De Kalb Ave., s s, 200′ w Central Ave., one-st'y brick boiler and engine-house, tin and iron roof; cost, $17,500; owner, Brooklyn City and Newton Railroad Co., De Kalb Ave., cor. Central St.; architect, Gustav Solden, 41 South Fulton St., Baltimore, Md.

Camden, N. J. — *Tenth St.*, s e cor. Chestnut St., one-st'y brick slaughter-house; owner, Isadore Green.

South Fourth St., No. 605, two-st'y brick building; owner, Farrett & Bro.

Chicago, Ill. — Swift & Co., tank and killing houses, Center Ave. and Forty-second St.; cost, $50,000.

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$8,000; owner, Hugh Quinn, 136 East Twenty-fifth St.; architect, James E. Ware, 487-489 Fifth Ave.

First Ave., s w cor. Twenty-eighth St., one-st'y brick and iron storage building, gravel roof; cost, $15,000; owner, American Lumber Co., s e cor. Twenty-first St. and Eleventh Ave.; architect, Constable Bros., 22 East Sixteenth St.

Avenue A, Nos. 337-341, 2 two-and-one-st'y brick workshops, tin roofs; cost, $16,000; owner, Consolidated Gas Co., 4 Irving Pl.; architect, Wm. H. Brodley, 4 Irving Pl.

Bank St., Nos. 159-161, seven-st'y brick workshop, gravel roof; cost, $35,000; owner, George F. Morgan, 433 West St.; architects, Jno. B. Snook & Son, 12 Chambers St.

Madison St., six-st'y brick workshop, tin roof; cost, $6,000; owner, Morris Berger, 63 Attorney St.; architect, Fred Ebeling, 3 First Ave.

Philadelphia, Pa. — *Foulkrod St.*, n e cor. Willow St., one-st'y boiler-house; owner, Jos. H. Brakie, 4948 Newberry St.

Fairmount Ave., s s, e Ninth St., one-st'y brick gas house; owner, Philadelphia and Reading Railroad, 227 South Fourth St.

Allens Lane, s s, e Cresheim Road, three-st'y brick shop; builder, Jacob Myres, 1315 Sansom St.

St. Louis, Mo. — Shed; cost, $6,500; owner and contractor, H. Pothoff.

Shed and workshop, e s Twentieth St., bet. Palm and Branch Aves.; cost, $6,500; owner and contractor, H. Pholoff.

PROPOSALS.

LIBRARY BUILDING.
At Richmond, Va.

COMMONWEALTH OF VIRGINIA,
OFFICE OF THE STATE BOARD OF BUILDING COMMISSIONERS,
STATE CAPITOL, RICHMOND, August 26, 1892.

Sealed proposals will be received at this office **until 12 o'clock M. September 24, 1892,** for the erection and completion of the State Library Building at Richmond, Va. Plans, specifications and "General Instructions to Bidders" may be seen at the office of the architect, W. M. Poindexter, 1320 F Street, Washington, D. C., and at this office on and after August 29, 1892.

No bid will be considered unless accompanied by a certified check for $5,000, made payable to the president of the State Board of Building Commissioners as a security for the execution of a contract for the work, with a bond in the penalty of $50,000. The Board reserves the right to reject any and all bids.

P. W. McKINNEY, Governor of Virginia
and President of the State Board of
873 Building Commissioners.

Treasury Department, Office Supervising Architect, Washington, D. C., September 7, 1892. Sealed proposals will be received at this office until two o'clock P. M. on the 28th day of September, 1892, and opened immediately thereafter, for all the labor and materials required for furnishing and fixing in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Post-office building at Hoboken, N. J., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Hoboken, N. Y. Bids will also be considered for any other system of heating and ventilating in lieu of the above, and parties proposing to supply such must submit with their proposal plans and full specification for same. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals must be enclosed in envelopes sealed and marked "Proposal for the Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Post-office building at Hoboken, N. J.," and addressed to W. J. EDBROOKE, Supervising Architect. 874

Treasury Department, Office Supervising Architect, Washington, D. C., September 7, 1892. Sealed proposals will be received at this office until 2 o'clock P. M. on the 29th day of September, 1892, and opened immediately thereafter, for all the labor and materials required for certain repairs to the United States Court-house, Post-office, etc., building at Macon, Ga., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Custodian at Macon, Ga. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids or to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Certain Repairs to the United States Court-house, Post-office building at Macon, Ga.," and addressed to W. J. EDBROOKE, Supervising Architect. 874

Treasury Department, Office Supervising Architect, Washington, D. C., September 6, 1892. Sealed proposals will be received at this office until 2 o'clock P. M. on the 4th day of October, 1892, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except plumbing and heating apparatus) of the extension to the United States Court-house, Post-office, etc., building at Dallas, Texas," in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Dallas, Texas. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Erection and Completion (except Plumbing and Heating Apparatus) of the Extension to the United States Court-house, Post-office, etc., building at Dallas, Texas," and addressed to W. J. EDBROOKE, Supervising Architect. 874

Treasury Department, Office Supervising Architect, Washington, D. C., September 2, 1892. Sealed proposals will be received at this office until 2 o'clock P. M. on the 23d day of September, 1892, and opened immediately thereafter, for all the labor and materials required for furnishing and fixing in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Court-house and Post-office building at Greenville, S. C., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Custodian at Greenville, S. C. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, or to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals must be enclosed in envelopes sealed and marked "Proposal for Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Court-house and Post-office building at Greenville, S. C.," and addressed to W. J. EDBROOKE, Supervising Architect. 873

Proposals for Dredging. United States Engineer Office, Mobile, Ala., August 27, 1892. Sealed proposals for dredging in Mobile Harbor, Ala., Biloxi Bay, Miss., and Pascagoula River, Miss., will be received at this office until 12 M. Wednesday, the 28th day of September, 1892, and opened immediately thereafter in presence of bidders. Specifications, general instructions to bidders and blank forms of proposals will be furnished on application to this office. The attention of bidders is invited to the Acts of Congress approved February 26, 1885, and February 23, 1887, Vol. 23, Page 332, and Vol. 24, Page 414, Statutes at Large. A. N. DAMRELL, Major of Engineers, U. S. A. 873

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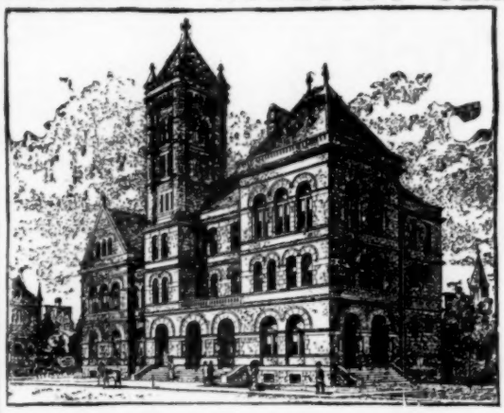

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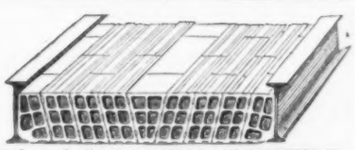

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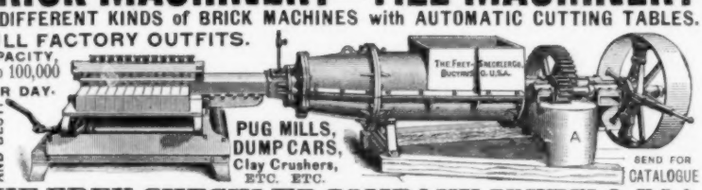

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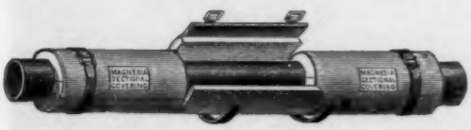

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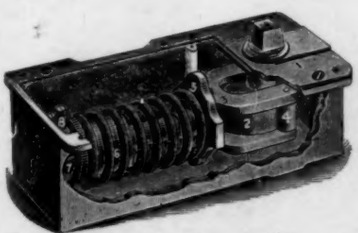

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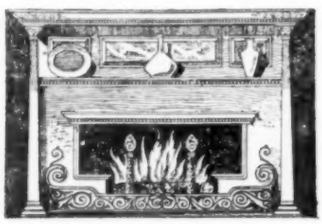

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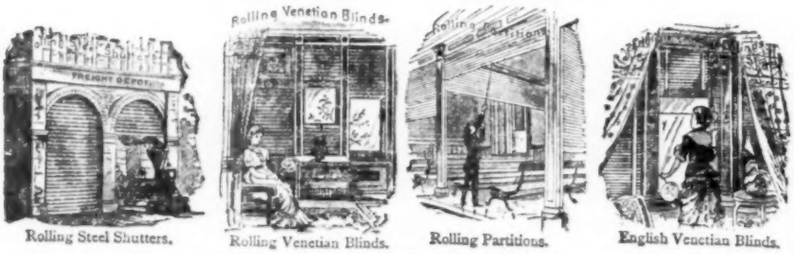

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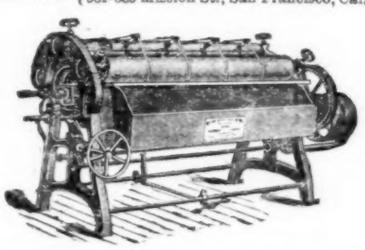

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Boards: (*Ordinary dimensions.*)				
Pine, 1st quality, clear	65 00 @ 75 00	50 00 @ 60 00	30 00 @ 47 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	25 00 @ 28 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	35 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	13 50 @ 25 00	*Not sold.*	16 00 @ 20 00
Hemlock	ea 13½ @ 14	13 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	25 00 @ 35 00	29 00 @ 37 00	14 00 @ 29 00
Cypress	@	31 00 @ 40 00	@	@ 35 00
Clapboards:				
Pine	@	38 00 @ 60 00	10 00 @ 22 00	14 00 @ 25 00
Spruce	@	23 00 @ 35 00	*Not sold.*	*Not sold.*
Framing Timber:				
Pine			12 00 @ 15 00	25 00 @ 37 30
Spruce	14 00 @ 18 00	15 00 @ 18 00	*Not sold.*	16 00 @ 18 00
Hemlock	12 00 @ 16 00	13 00 @ 15 00	10 00 @ 13 00	13 00 @ 17 00
Yellow pine	18 00 @ 21 00	24 00 @ 35 00		22 00 @ 28 00
Laths:				
Pine	@	2 25 @ 2 35	2 10 @ 2 25	2 75 @ 3 00
Spruce	2 85 @ 3 00	2 35 @ 2 50	*Not sold.*	2 30 @ 3 00
Shingles:				
Pine, shaved ℔ M.	5 00 @ 6 00	@	*Not sold.*	
Pine, sawed "	4 00 @ 5 00	@ 4 50	2 20 @ 3 00	
Spruce, sawed "	1 50 @ 2 00	1 50 @ 00	*Not sold.*	
Redwood ℔ 125	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	30" $35 @ 40
Cedar split ℔ M.	@	@	*Not sold.*	24" 8 @ 21
Cedar sawed "	@	2 00 @ 4 00	2 00 @ 2 35	20" 35 @ 14
Cypress. Split....7 x 24. "	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Piles ℔ ft.	4½ @ 5½	Piles 6c. ℔ ft.	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P.10 00 @ 18 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.)	@	25 @ 50	9 @ 21	40 @ 1 25
Chestnut posts	@	25 @ 50	*Not sold.*	20 @ 30
Finishing Woods: ℔ M. (*First Qual.*				
Ash [*Kiln-dried.*]	@ 55 00	45 00 @ 60 00	30 00 @ 35 00	30 00 @ 40 00
Cherry	80 00 @120 00	90 00 @ 120 00	80 00 @ 110 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	50 00 @ 60 00	70 00 @ 80 00
Hard-pine floors (rift)		45 00 @ 50 00		
Mahogany, Baywood [Mexican]	@180 00	150 00 @ 160 00	150 00 @ 200 00	150 00 @ 250 00
" St. Domingo	@350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
Oak, red	@ 70 00	@ 50 00	32 00 @ 46 00	45 00 @ 55 00
" white	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	35 00 @ 50 00	57 50 @ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	35 00 @ 50 00	@ 65 00
Redwood	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
Rosewood ℔ lb.	@ 6		@ 7	
Spruce floors (clear, kiln-dried)		32 00 @ 35 00		
Walnut, black	125 00 @150 00	85 00 @ 120 00	55 00 @ 100 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	40 00 @ 45 00	18 00 @ 40 00	25 00 @ 40 00
Yellow pine ℔ M.	@ 45 00	40 00 @ 42 00	29 00 @ 40 00	@ 45 00

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BRICK.—₱ M.	New York. (Wholesale Prices.)	Boston. (Wholesale Prices.)	Chicago. (Prices to Builders and Contractors.)	Philadelphia. (Prices to Builders and Contractors.)
Common: *Cargo afloat.*				In Yard.
Pale	1 75 @ 2 00	Eastern 9 00 @ 10 00	Building Brick @ 6 50	Sq. Hard @ 9 00
Jersey	4 00 @ 4 75	Bay State Hard 7 00 @ 8 00		" @ 7 00
Long Island	@	Domestic Com. 9 50 @ 10 00	Indiana Pressed 14 00 @ 20 00	Salmon @ 5 00
Up River	4 00 @ 4 75	Domestic Face 20 00 @ 22 00	St. Louis Fronts @ 27 00	Sq. " @ 9 00
Haverstraw Bay 2d	4 75 @ 5 00	Philadelphia 40 00 @ 45 00		Light Stretchers
1st	5 00 @ 5 25	Phila. mould 50 00 @ 80 00	15 00 @ 27 00	Medium " @ 10 00
Hollow	@ 13 00		65 00 @ 350 00	Red " @ 12 00
Fronts:		Anderson 14 00 @ 32 00	@ 55 00	Dark " @ 13 00
Croton, Brown	@ 13 00		45 00 @ 50 00	Pressed @ 13 00
" dark	@ 14 00		45 00 @	Best Paving 18 00 @ 20 00
" red	@ 14 00		25 00 @	Second " @ 14 00
Chicago pressed (Anderson)			60 00 @ 100 00	Third " @ 13 00
" Moulded			30 @	Dom. @ 12 00
Baltimore	37 00 @ 41 00		35 @	
Philadelphia	23 00 @ 24 00		55 00 @ 65 00	
Trenton	22 00 @ 23 00			
Milwaukee			@ 100 00	
Moulded:			@ 120 00	
Glens Falls Red Pressed	@ 37 00			
" " Buff "	@ 30 00			
" " Moulded Red & Buff	45 00 @ 70 00			
Enamelled: *Imp.*				
Enamelled (edge)	85 00 @100 00			
Enamelled (edge and end)	90 00 @115 00			
CEMENT, LIME, etc.—(₱ *cask.*)				
Rosendale Cement	85 @ 95	1 20 @ 1 40	*Not sold.*	
Louisville "		Brooks, S. & Co.	1 05 @ 1 30	1 30 @ 1 50
Utica, Akron, Buffalo, Milw'kee.	*Not sold.*	2 60 @ 3 00	1 00 @ 1 25	BS&Co 2 75 @ 3 00
Portland, English (Gibbs)	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	2 85 @ 3 25
" " (K. B. & S.)	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " Black Cross	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " (Burnham)	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 85 @ 3 15
" " (White's)	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 2 85
" French (Lafarge)	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	
" German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	Hemmoor
" " (Fewer)	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 50 @ 2 75
" " (Vorwohler)	2 50 @ 2 90	Cleopatra	@	2 75 @ 2 85
" " (Lagerdofer)	@	2 55 @ 3 00	2 75 @ 3 00	Josson
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	3 25 @ 3 50	2 60 @ 2 75
" " (Hanover)	2 50 @ 3 00		*Not sold.*	3 00 @ 3 25
" " Stettin, (Anchor)	2 35 @ 2 85		*Not sold.*	2 75 @ 2 85
" American (Saylor's)	1 75 @ 2 00	2 15 @ 2 50	2 75 @ 3 00	
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	2 70 @ 3 00
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	3 00 @ 3 50
" superfine	9 25 @ 10 25	@ 11 50	9 00 @ 10 50	6 50 @ 7 00
Lime:				8 00 @ 9 00
Lime of Teil	3 50 @ 4 00		*Not sold.*	White Lime ₱ bush
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30
Chicago Lime in bulk		St. John 1 00	55 @	White Mash
Wisconsin Lime			60 @	1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 85	@ 1 05	*Not sold.*	1 00 @ 1 00
Rockland and Rockport, finish	@ 95	@ 1 10	*Not sold.*	
Kelley Island Lime, finish	@ 1 20	@ 1 20	1 00 bulk, 75c.	
State, com. cargo rates (nom.)	@ 85	*Not sold.*	*Not sold.*	*Not sold.*
State, finishing	@ 1 05	*Not sold.*	*Not sold.*	*Not sold.*
Plaster of Paris (calcined)	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting)	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) ₱ *bush.*	16 @ 18	25 @ 30	20 @ 25	20 @ 25
" (Goat)	21 @ 25	@ 30	30 @ 35	30 @ 35
Sand, ₱ *load*	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (₱ *cubic foot, rough.*)				
Granite: (*Maine*)		@ 60		55 @ 65
Limestone:				
Bedford	45 @ 1 25	95 @ 1 00	50 @	75 @ 90
Joliet	@ 1 00		35 @ 55	Richmond
Lemont	@		55 @ 60	75 @ 1 50
Serpentine	@	10 50 per ton	@ 1 00	₱ Perch @ 4 f0

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BUILDING MATERIALS.

	New York. *Wholesale Prices.*	Boston. *(Prices to Builders and Contractors.)*	Chicago.	Philadelphia.
Foundation:				
Dimension	@	5 00 ℔ ton.	20 @	@ 5 00
Block	@	4 60 ℔ perch.	@	Conshocken
Rubble	@	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: (℔ *sq. ft.*)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in.th. 10 @ 25
Planed	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	@ 80	80 @ 90	@	} 95 @ 1 1
Kibbe	@ 90	90 @ 1 10	@	
Brown (Connecticut)	1 00 @	1 25 @ 1 45	1 50 ℔ cub. ft.	1 05 @ 1 35
Amherst } Ohio	90 @ 95	90 @ 1 00	45 @ 50	}
Berea } Ohio	75 @ 1 00	85 @ 90	45 @ 55	55 @ 1 00
Berlin } Ohio	75 @ 1 00	80 @ 90	55 @ 65	
Belleville	80 @ 1 25	1 25 @ 1 35	@ 1 25	1 10 @ 1 00
New Brunswick (Dorchester)	@ 1 00	75 @ 90	@	1 00 @ 1 00
Caen	@	@ 2 00	@	1 25 @ 1 00
Carlisle, English	@ 1 05	@ 1 05	@	95 @ 1 00
Corse Hill (Scotch)	@ 1 05	@ 1 05	@	@
Marble: (℔ *cu. ft.*)				
Lee, Mass	@	1 75 @ 2 50	*Not Sold.*	2 00 @ 2 50
Rutland, white and blue	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black	@	@	*Not Sold.*	4 00 @ 4 50
Italian, blue-veined	@	@	@ 4 40	2 50 @ 2 75
" Sienna	@	@	*Not Sold.*	@ 5 00
Tennessee, red	@	@	@ 4 40	4 00 @ 6 00
" Knoxville	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue	@	@	*Not Sold.*	2 00 @ 3 00
Vermont, white	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (℔ *square*)				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" " unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	} 50 @ 10 25
" black, Lehigh	4 25 @ 4 75	@	6 25 @ 6 85	225 @ 4 00
" " Chapmans	@	@	7 30 @ 8 00	00 @ 4 65
" Unfading black, Monson, Me	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am ...℔ M.	@	@	*Not Sold.*	@ 25 00
N. Peach Bottom, warranted unfading	@	@	@	6 00 @ 6 75
PAINTS. (*In Oil* ℔ *lb.*)				
White lead, Am	7 @ 7½	7 @ 7½	6½ @ 7	@ 7½
" zinc, "	5 @ 8½	@ 8	7 @ 10½	@ 7
Red lead, Am	6½ @ 7	7 @ 7½	6½ @ 7	@ 7½
" Venetian	6 @ 10½	7 @ 12	1½ @ 2½	dry Eng. @ 7
" Vermillion	65 @ 70	70 @ 5 dry	65 @ 68	Eng. @ 76
" Indian, Eng	12 @ 20	12 @ 20	12 @ 20	6½ @ 7
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 1½
" Chrome	12 @ 20	18 @ 25	15 @ 25	@ 18
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris	25 @ 40	25 @ 40	18 @ 35	" 15 @ 20
Black, lamp	15 @ 25	15 @ 25	8 @ 30	8 @ 12
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw) (℔ gal.)	55 @ 62	41 @ 42	57 @ 60	@ 60
" " boiled. (℔ gal.)	58 @ 65	44 @ 45	60 @ 63	@ 63
Turpentine (℔ gal.)	36 @ 37	@ 34	51 @ 51	@ 44
Varnish, coach (℔ gal.)	@	1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac (℔ gal.)	@	2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty	2 @	2 @ 4	2 @ 2½	2 @ 2½
Whiting (℔ cwt.)	75 @ 1 00	1 @ 1½	1 @ 1½	¾ @ 1
Paris white, (Eng.) (℔ cwt.)	1 30 @ 2 00	2 @ 3	1½ @ 2	1½ @ 2
Litharge, Am (℔ cwt.)	5½ @ 6	7 @ 7½	6½ @ 7	@ 7½
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber "	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (*Per Cask.*) Spikes, (*wrought.*)	@ 2 85	@	2 75 @ 3 00	per keg @ 2 25
10d. common	@ 2 60	@ 2 10	@ 2 35	@ 2 30
Shingle	@ 3 35	@ 2 50	@ 2 75	@ 2 60
Lath	@ 4 85	@ 3 40	@ 3 65	3 60 @ 4 75
(*Finishing nails according to size.*)	@	@	Add .85 to $1.15	per ℔ 4 @ 6
(*For casing nails add 75 c. per keg.*)	@	@	" .50 to .90	Add per cask 2 90 (all kinds.)
Butts: 4″ x 4″ ...(℔ doz. pairs.)				
Plain	@ 1 00	@ 1 20	@ 90	@ 90
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Ball Tip, Boston Finish...(℔ pair.)	@ 65	@ 50	*Not Sold.*	48 @ 50
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Brass (for cupboards.)	@ 10	@ 10	@ 12	@ 1 00
Ebony	@	@	@	@ 35
Apple wood	@	@	@	37 @ 1 00
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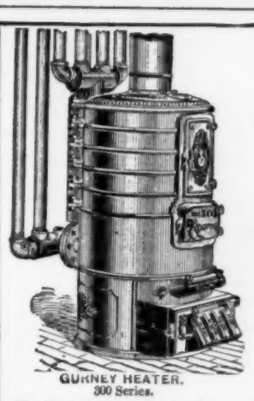
Hemacite	*Not Sold.*	17 @ 33	31 @ 40	25 @ 50
Porcelain	@ 30	@ 10	25 @ 30	@ 25
Glass, solid	*Not Sold.*	@ 50	*Not Sold.*	1 00 @ 2 50
Glass, silvered	*Not Sold.*	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:	@	@	13 @ 16	13½ @ 16
Sheet Lead	@	@ 7½	@ 7	@ 6½
Lead Pipe	@	@ 6½	@ 6½	6 @ 6
Iron:				
I-Beams, up to and including 36 ft.	3 3-10 @ 3½	@ 3 4-10	@	@ 2 8-10
I-Beams, over 30 ft. ½, ¼, ½ c. advance	@	@	3 20 @ 3 70	@ 2 8-10
Channel Beams	3 3-10 @ 3½	@ 3 4-10	3 20 @ 3 70	@ 2 8-10



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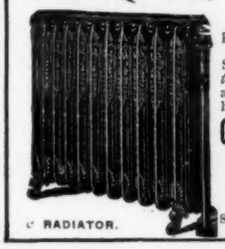

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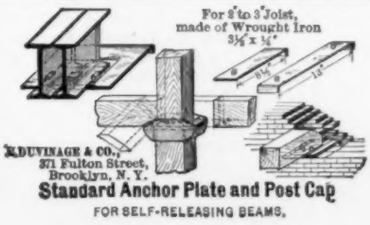

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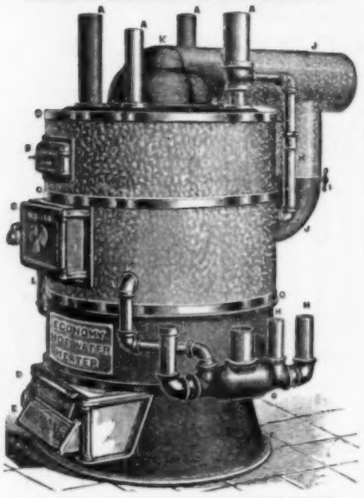

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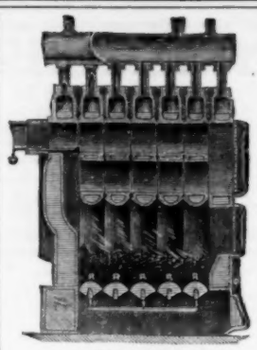

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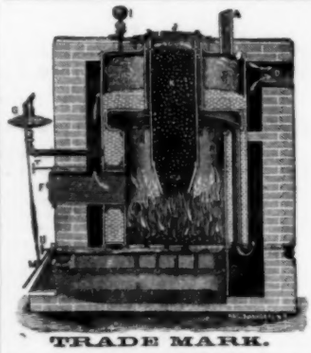

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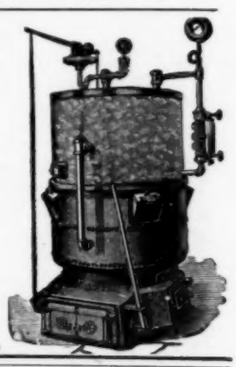

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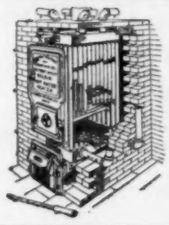

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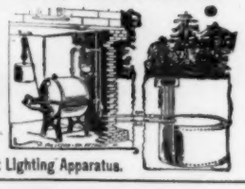

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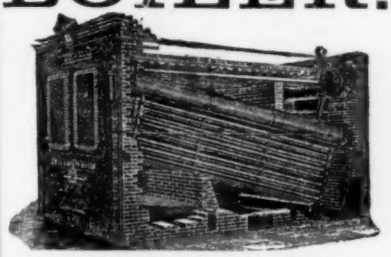

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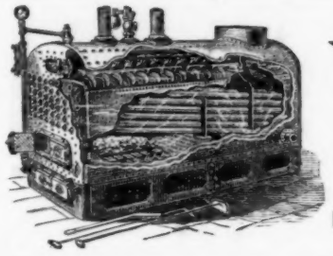

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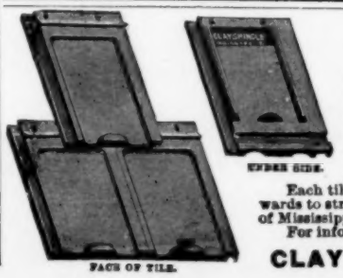

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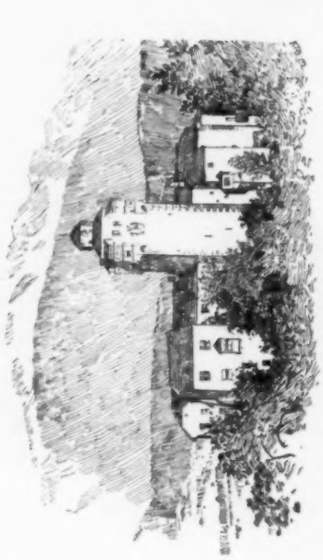

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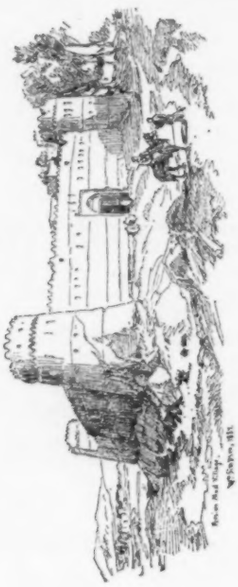

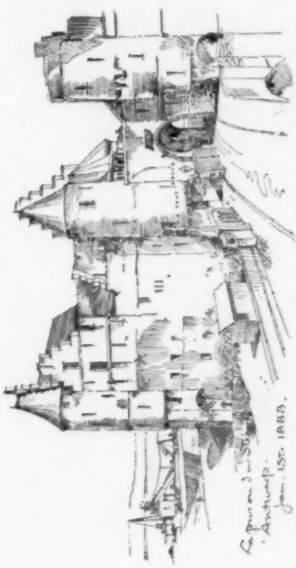

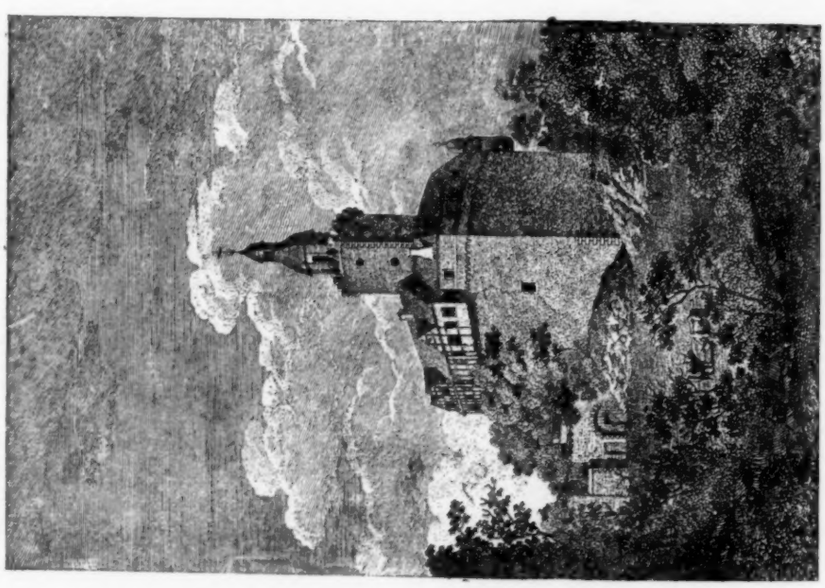

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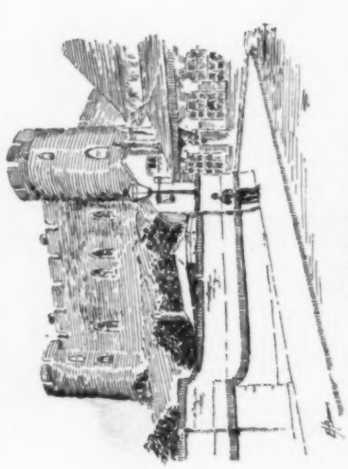

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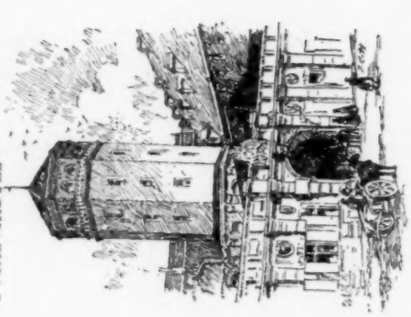

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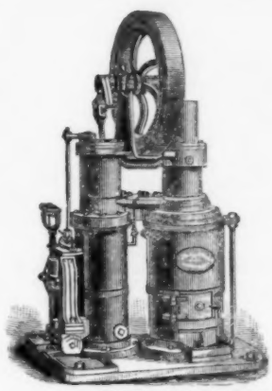

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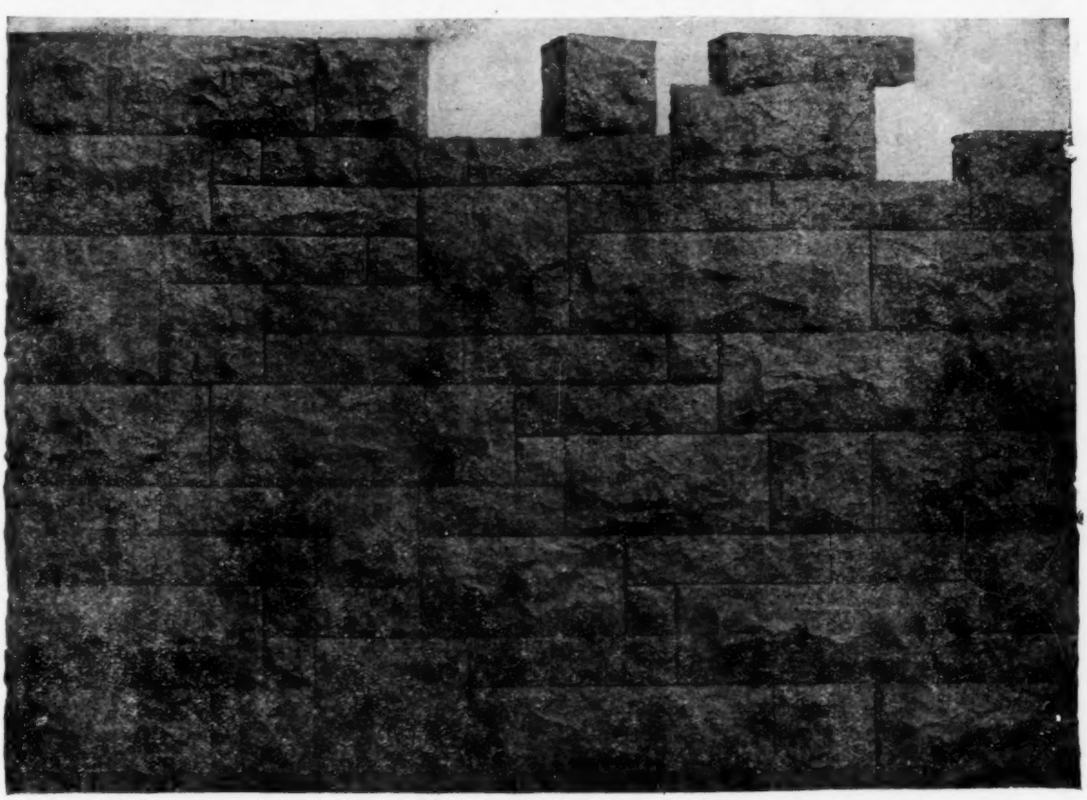

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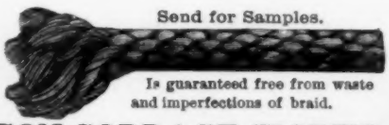

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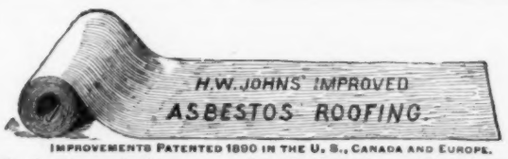

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New Advertisements.

HESSLING & SPIELMEYER (New York, N. Y.), Books. Page viii.
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W. H. MULLINS (Salem, O.), Sheet-Metal Ornament. Page ii.

WANTED.

SALESMAN. — Wanted, a gentleman of tact and business ability to represent a large commercial house among the architects and builders. The right man can secure a good situation. Address "P," care of *American Architect*.

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WANTED.

POSITION.—Wanted, designer in charge; effective sketcher; practical in planning furniture, building work, etc., wishes to make a change. Good opening in trade acceptable. Address "M," care of *American Architect*. 874

TO ARCHITECTS.

FRANCIS H. CRUESS, architectural artist; address, 206 North Second Street, Harrisburg, Pa.; perspectives rendered either in color, monochrome or pen-and-ink; specimens. t.f.

PERSPECTIVES.

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BUILDING PATENTS.

[*Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.*]

482,013. Ventilated Vault-Cover. — Wilmot Lake, Charlton Heights, Md.
482,022. Weather-Strip. — William H. Nixon, Plymouth, Ind.
482,023. Compound Triangle. — Arthur T. Page, Minneapolis, Minn.
482,024. Transom-Lifter. — Edward Payson, Chicago, Ill.
482,025. Metallic Roofing-Tile. — Ephraim B. Repp, Washington, D. C.
482,026. Plumb-Level. — John T. Rider, South Oil City, Pa.
482,052-053. Apparatus for Purifying Sewage. — John Wilson, New York, N. Y.
482,054. Hand-Elevator. — Henry G. Zoschnick, Cleveland, Ohio.

The following advertisements are omitted in this issue in favor of the Classified Index.

Blake Bell Co.
L. Haberstroh & Son.
Huyett & Smith Mfg. Co.
Hydraulic-Press Brick Co.
J. Miller & Bro.
New Jersey Wire Cloth Co.
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E. Thiele.
Tirrill Gas-Machine Co.
Tucker & Sons.
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See the first issue of the month for the following advertisements.

Brooks, Shoobridge & Co.
Bureau Bros.
Dubois Mfg. Co.
Esterbrook Pen Co.
I. P. Frink.
H. M. Hansen.
Lane Bros.
A. G. Newman.
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R. W. Parry.
Philadelphia Blue Print Co.
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Schwartz Mfg. Co.
J. B. Shannon & Sons.
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BUILDING PATENTS.

482,059. Construction of Sea Walls. — Balston C. Kenway, Tacoma, Wash.
482,074. Electrical Heater. — John V. Capek, New York, N. Y.
482,076. Apparatus for Heating Water. — Henry B. Clarke, Chicago, Ill.
482,096. Roof-Scaffold-Bracket. — Herbert McCornack, McQueen, Ill.
482,098. Stone Cutting and Dressing Machine. — John Rawle, Chicago, Ill.
482,107. Miter-Tool. — Andrew Van Bibber, Cincinnati, O.
482,111. Shutter-Fastener. — Charles L. Walters, Seabright, N. J.
482,131. Elevator-Controlling Mechanism. — Alexander J. McAdam, San Francisco, Cal.
482,187. Valve. — George B. Moore, Springfield, Mass.
482,188. Furnace-Boiler. — Edward B. Parkhurst, Woburn, Mass.
482,227. Door-Check. — William J. Conner, Labette, Kansas.
482,246. Shutter-Fastener. — Edward W. Hagee, St. Louis, Mo.
482,247. Elevator. — Stedman H. Hale, Chicago, Ill.
482,248. Brick-Machine. — Howard Harlan, Renovo, Pa.
482,252. Brick-Machine. — George T. Jacobs, Washington, D. C.
482,263. Electric Annunciator. — Erastus D. Moore, New York, N. Y.
482,276. Heating-Drum. — Jacob Seither, Keokuk, Iowa.
482,280. Automatic Sash-Fastener. — George Solari, St. Louis, Mo.
482,285. Elevator-Gate. — Emory D. Toops, Indianapolis, Ind.

Imports of Building Materials, Etc.,

AT THE PORT OF NEW YORK FOR THE WEEK ENDING SEPTEMBER 16, 1892.

From Antwerp. — Steamer "*Lepanto*," 700 barrels cement, Douglas; 200 do., R. F. Downing & Co.; 3,250 do., order. Steamer "*Belgenland*," 189 iron girders, R. F. Downing & Co.; 750 barrels cement, E. Thiele; 2,000 do., M. Ebert; 2,750 do., order. Steamer "*Rhynland*," 750 barrels cement, E. Thiele; 4,000 do., 77 girders, order.

From Bluefields, Nic. — Steamer "*Alert*," 340 logs mahogany, W. L. Rathburn & Co.

From Bremen. — Steamer "*Kaiser Wilhelm II.*," 2,520 casks cement, order. Steamer "*Trave*," 112 barrels cement, order.

From Bristol. — Steamer "*Brooklyn City*," 305 cases bricks, American Trading Co.

From Campeachy. — Schooner "*De Mory Gay*," 284 logs mahogany and cedar, G. Amsinck & Co.

From Colon. — Steamer "*Colombia*," 19 logs wood, Andreas & Co.

From Genoa. — Ship "*Nicola Accame*," 81 blocks marble, G. Amsinck & Co.; 1,444 slabs and tables of marble, Taber & Co.; 15 blocks do., order.

From Glasgow. — Steamer "*State of Nevada*," 15 stones, G. P. Sherwood; 143 cases granite, Austin, Baldwin & Co.; 23 do., Brown Magowan; 7 do., R. F. Downing & Co.; 3 do., Thos. Phillips & Sons.

From Hamburg. — Steamer "*Wieland*," 560 casks cement, E. Thiele. Bark "*Marie*," 1,200 barrels cement, 2,750 do. Portland cement, order.

From Hull. — Steamer "*Martello*," 1,300 casks cement, E. Thiele.

From Liverpool. — Steamer "*Aurania*," 4 logs wood, W. E. Uptegrove & Bros.

BACK NUMBERS WANTED.

The publishers of the *American Architect* would like to purchase a few copies of

Nos. 801, 807 and 827

of the Regular edition, and of

Nos. 790, 794 and 795

of the Imperial edition. Double price will be paid for copies in good condition.

Full price will be paid for copies in good condition of the following numbers.

Imperial Edition 749, 782.

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See last or next issue for the following advertisements.

E. D. Albro Co.
Alsen's Cement Works.
J. W. Boughton.
Chrome Steel Works.
Continental Insurance Co.
Cortright Metal Roofing Co.
F. E. Cudell.
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E. B. Moore & Co.
Spaulding & Moss.
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J. S. Thorn.

IMPORTS OF BUILDING MATERIALS, Etc.

From London. — Ship "*City of Montreal*," 1,500 casks Portland cement, C. J. Stevens; 1,000 do., E. Thiele. Steamer "*England*," 1,000 casks cement, C. J. Stevens; 650 do., Bank of British North America; 639 do., 2,000 do., order.

From Marseilles. — Steamer "*Neustria*," 3 blocks marble, Sickel Marble and Granite Co.

From Newcastle. — Steamer "*Croft*," 1,680 casks cement, Bowring & Archibald; 25,000 square firebricks, 5,000 closer do., Hammill & Gillespie.

From Rotterdam. — Steamer "*Obdam*," 6,054 packages timber, etc., 458 cases roofing-slate, W. H. Van den Toorn; 1,000 casks cement, E. Thiele. Steamer "*Didam*," 1,000 casks cement, E. Thiele. Steamer "*Bernicia*," 3,900 barrels cement, order.

From Santa Anna. — Schooner "*Thos. P. Ball*," 551 logs mahogany, J. Rayner.

From St. Jago. — Steamer "*Cienfuegos*," 53 logs mahogany, Ichabod J. Williams & Son; 32 do. cedar, The Jacob Henkell Co.; 55 do. mahogany, Willard Hawes & Co.

From Trinidad. — Steamer "*Bratten*," 900 tons asphaltum, order.

From Wallace, N. S. — Schooner "*Kalevala*," 55 blocks building-stone, C. F. Woodward.

From Wentworth, N. S. — Bark "*St. Paul*," 811 tons lump plaster, J. F. Whitney & Co.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[*Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.*]

ALTERATIONS.

Brooklyn, N. Y.—*Liberty St.*, cor. High and Fulton Sts., four-st'y brick store and hotel, tin roof, four-and-one-half-st'y brick extension, tin and copper tile roof, and internal and other alterations; cost, $12,000; owner, Valentine Schmitt, 56 Pineapple St.; architect, J. G. Glover, 186 Remsen St.

Quincy St., s s, 100′ w Ralph Ave., three-st'y brick and stone school-house, slate and tin roof, three-st'y brick extension, slate and tin roof, and internal and other alterations; cost, $45,000; owner, Board of Education, 131 Livingston St.; architect, J. W. Naughton, 131 Livingston St.

Hicks St., s e cor. Love Lane, two-st'y brick stable and dwell., tin roof, raised one story and internal alterations made; cost, $3,600; owner, W. H. Langley, Pierrepont and Hicks Sts.; architect, M. Thomas, 16 Court St.

Cook St., n s, 500′ e Bushwick Ave., two-st'y frame factory, felt and gravel roof, raised one story and internal alterations made; cost, $3,800; owners, Ironclad Manufacturing Co., 22 Cliff St., New York City; architect, F. Weber, Jr., 209 Manhattan Ave.

Hanson Place, n w cor. South Portland Ave., three-st'y brick club-house, tin roof, two-st'y brick extension, tin roof; cost, $8,000; owner, Columbia Club, on premises; architect, Thomas F. Houghton, 340 Fulton St.

Duffield St., Nos. 93-103, four-st'y brick apartment-house, tin roof, four-st'y brick extension, tin roof, and internal alterations; cost, $12,000; owner, M. V. Freund, Third Ave. and Forty-seventh St., New

(*Continued on page* xv.)

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York City; architect, John R. Buchanan, 965 Fifth Ave., New York City.

Bedford Ave., e s, 50′ n Morton St., brick and stone church, slate and gravel roof, one-st'y stone extension, slate and tin roof; cost, $5,500; owners, wardens and vestry of Christ Church, Bedford Ave.; architects, Delhi & Chamberlin, 874 Broadway, New York City.

Hicks St., No. 496, two-st'y brick and stone structure, one-st'y brick extension, tin roof, and internal and other alterations; cost, $4,500; owner, City of Brooklyn, Fire-Department Headquarters.

Broadway, s s, 21′ 6″ w Sumner Ave., four-st'y brick store and dwell., gravel roof; brick extension, tin roof added, internal and other alterations; cost, $4,000; owner, Joseph Greenberg, 718 Broadway; architect, Th. Engelhardt, 905 Broadway; builder, Christ. Schneider, 867 Flushing Ave.

Camden, N. J. — *Market St., No.* 214, two-st'y brick addition; owner, Charles Wrifford.

Mt. Ephraim Ave., No. 1132, one-st'y addition; owner, Wm. Ghomersill, 1132 Mt. Ephraim Ave.

New York, N. Y. — *Fifth Ave., No.* 624, four-st'y brick dwell., extension; cost, $3,000; owner, Wm. Zeigler, 624 Fifth Ave.; architect, E. L. Angell, 94 Liberty St.

Fifth Ave., No. 416, four- st'y brick flat, raised to five stories and extension and internal alterations; cost, $40,000; owner, George Kemp, 720 Fifth Ave.; architects, Thorp & Knowles, 21 West Twenty-fourth St.

Waverly Pl., No. 113, three-st'y brick tenement, raised to four stories and extension added; cost, $8,000; owner, James Cunningham, 114 Waverly Pl.; architect, Louis F. Heinecke, 62 Bowery.

Ferry St., Nos. 20-22, five-st'y brick store, changed from a mansard to flat roof; cost, $4,000; owner, Charles H. Lee, West Orange, N. J.; architect, Edward Wenz, 1491 Third Ave.

West Fifty-ninth St., No. 306, two-st'y brick store building, raised to six stories, with internal alterations; cost, $25,000, owner, Charles H. Appleby; lessee, George R. Bidwell, 306-310 West Fifty-ninth St.; architects, Radley & Greenough, 16 East Forty-second St.

Sixth Ave., s w cor. Waverly Pl., five-st'y workshop, internal alterations; cost, $3,000; owner, George H. Kendall, Stapleton, Staten Island; architect, Stephen D. Hatch, 115 Broadway.

Fourth Ave., s e cor. Twenty-fourth St., five-st'y brick hotel, internal changes; cost, $3,000; owner, Willard Parker Estate, 55 Fifth Ave.; architects, Berg & Clark, 10 West Twenty-third St.

Franklin St., No. 173, three-st'y brick engine-house, extension raised from one story to two stories, with internal changes; cost, $8,000; owner, Fire-Department, City of New York, 157-159 East Sixty-seventh St.

Henry St., n e cor. Eldridge St., two-st'y brick church, extension, with internal changes; owner, First Baptist Mariners' Temple; Wm. A. Cauldwell, Chairman Building Committee, 16 West Fifty-fourth St.; architects, J. C. Cady & Co., 31 East Seventeenth St.

One Hundred and Fifteenth St., s s, 100′ w Third Ave., four-st'y school-building, extension and internal changes; cost, $70,000; owners, Mayor, Aldermen, Commonalty, City of New York; architect, C. B. J. Snyder, 146 Grand St.

St. Louis, Mo. — Repairing five-st'y brick store and office-building; cost, $5,000; owner, J. W. Herthel; contractors, Ben Lynds & Co.

Alterations of brick stores; cost, $6,000; owner, G. I. Barnett; contractors, J. S. Roby & Son.

Verdun, Que.—Addition to Hospital for the Insane; architects, Wright & Son, 204 St. James St., Montreal, Can.

APARTMENT-HOUSES.

Boston, Mass. — *West Broadway, No.* 381, Ward 13, four-st'y brick apartment, flat roof, 43.10′ x 61′; owner, Robert Provan; builder, W. T. Eaton.

Brooklyn, N. Y.— *Tenth St.*, s s, 85′ w Third Ave., 2 four-st'y brick flats, tin roofs; cost, $9,000 each; owner, John M. Neil, 381 Second St.; architects, I. D. Reynolds & Son, 363 Fulton.

Conover St., e s, 25′ s King St., four-st'y brick apartment-house, tin roof; cost, $7,000; owner and builder, Patrick Gleason, 34 Garnet St.; architects, I. D. Reynolds & Son, 363 Fulton St.

Sixth St., s s, 75′ w Fourth Ave., 4 four-st'y brick flats, tin roofs; cost, $8,000 each; owner, E. J. Norris, 246 Thirteenth St.; architect, A. V. B. Norris, Windsor Terrace, L. I.

Bergen St., s s, 28′ e Franklin Ave., 2 four-st'y brick flats, tin roofs; cost, $9,000 each; owner, architect and builder, W. J. Conway, Third Ave. and Sackett St.

Minneapolis, Minn.—Wm. S. Mills, three-st'y brick and stone flats, 10-12 East Fifteenth St.; cost, $20,000.

New York, N. Y. — *Alexander Ave.*, n w cor. Boulevard, 6 five-st'y brick flats, tin roofs; cost, $122,000; owners, John & Nicholas Cotter, 130 Willis Ave.

Columbus Ave., n e cor. Sixty-fifth St., seven-st'y brick flat, gravel roof; cost, $80,000; owner, Estate of Ralph Marsh, 51 Liberty St.; architect, Stephen D. Hatch, 115 Broadway.

Dowuing St., s s, 182′ w Bedford St., five-st'y brick flat, tin roof; cost, $28,000; owner, Samuel W. B. Smith, 1237 Franklin Ave.; architect, John Hauser, 1441 Third Ave.

Willis Ave., No. 321, five-st'y brick flat, tin roof; cost, $18,000; owner, Jacob Weinheimer, Westchester Co.; architect, Julius Spindler, 93-99 Nassau St.

Eighty-eighth St., s s, 96′ w Avenue B, 8 five-st'y brick flats, tin roofs; cost, $114,000; owner, John McLaughlin, 346 East Eighty-first St.; architect, John Hauser, 1441 Third Ave.

Eighty-eighth St., n s, 174′ e Avenue A, 5 five-st'y brick flats, tin roofs; cost, $90,000; owner, John McLaughlin, 346 East Eighty-first St.; architect, John Hauser, 1741 Third Ave.

Henry St., Nos. 113-115, five-st'y brick flat, tin roof; cost, $22,000; owner, John G. Hunt, Warrensburg, N. Y.; architect, Charles Rentz, 153 Fourth Ave.

CHURCHES.

Brooklyn, N. Y.— *Patchen Ave.*, s w cor. McDonough St., one-st'y brick church, slate roof; cost, abt. $15,000; owner, Baptist Church Extension Society of Brooklyn; architect, A. B. Jennings, 145 Broadway, New York City; builder, R. B. Ferguson, 254 Lee Ave.

Hagarstown, Md.— Brick and frame chapel and parish-house; architect, W. Frank Hurd, Boston.

FACTORIES.

Brooklyn, N. Y. — *Fifty-third St.*, n w cor. First Ave., one-st'y brick projectile factory, iron roof; cost, $10,000; owners and architects, United States Projectile Co., Fifty-third St. and First Ave.; builder, F. J. Ashfield, 168 Montague St.

HOTELS.

Brooklyn, N. Y. — *Washington St.*, e s, 94′ 6″ n Concord St., five-st'y brick hotel and stores, tin roof; cost, $20,000; owner, Henry P. De Graef, One Hundred and Twenty-fifth St. and Fifth Ave., New York City; architect, George M. Walgrove, 99 Nassau St., New York City.

Philadelphia, Pa.— Ten-st'y hotel; cost, $3,000,000; architect, Mr. Balderston.

Forty-fourth St., n w cor. Lancaster Ave., three-st'y brick, copper and sandstone hotel; architect, J. Frank Miller, 1221 Arch St.

West Chester, Pa.—Four-st'y brick and stone hotel; owner, Mr. N. T. Hayes; contract not let.

Woodbine, N. J. — Three-st'y frame hotel; for the Baron De Hirsch fund; architect, S. Hall Day, 910 Drexel Building, Philadelphia.

HOUSES.

Baltimore, Md. — George B. Spedden, 5 two-st'y brick buildings, w s Barclay St., s Second St.

C. A. Pindell, 8 two-st'y brick buildings, e s Fulton Ave., bet. Baker and Presstman Sts.

Hy. Branders, 2 two-st'y brick buildings, e s Dallas St., bet. Aliceanna and Lancaster St.

F. E. Yewell, 36 three-st'y brick buildings, Robert St., n Lenox St.

E. B. Rest, 3 two-st'y brick buildings, Gutman Ave., near Kennedy's Lane.

Wm. G. White, 8 three-st'y brick buildings, w s Forrest Pl., bet. Chase and Biddle Sts.

J. H. Aull, 2 three-st'y brick buildings, e s Calvert St., s North Ave.

C. J. Roberts, 5 two-st'y brick buildings, e s Robinson St.; and 10 two-st'y brick buildings, n s Lancaster St., near East Ave.

George C. Young, 28 two-st'y brick buildings, 13 w s Bond St., 10 e s Dallas St., and 5 n s Lanvale St.

Boston, Mass.—*Belvidere St.*, cor. Dalton St., Ward 11, three-st'y brick dwell., flat roof, 89.1′ x 219.6′; owner, City of Boston; builders, Norcross Bros.

H St., rear No. 48, bet. Second and Third Sts., Ward 14, three-st'y frame dwell., flat roof, 24′ x 43′; owner, Mrs. J. Quirk.

Brooklyn, N. Y. — *North Jefferson St.*, 100′ w Irving Ave., two-st'y frame dwell., tin roof; cost, $3,000; owners and builders, A. Amann & Son, 256 Jefferson St.; architect, E. Schrempf, 534 Bushwick Ave.

Berriman St., w s, 326′ s Blake Ave., 2 two-st'y frame dwells., tin roofs; cost, $2,000 each; owner, George Schaub, Railroad Ave.; builder, John Beck, Linwood St.

Osborne St., e s, 175′ s Derwent Ave., three-st'y frame dwell., tin roof; cost, $6,000; owner, Elias Kaplan, Osborne St.; architect, Louis Dananci er, 26 Watkins St.

Osborne St., w s, 100′ s Eastern Parkway, 3 three-st'y frame dwells., tin roofs; cost, $4,000 each; owners, Lewis & Gittsohn, 93 Thatford Ave.; architect, A. J. Warren, 2581 Atlantic Ave.

Hendrix St., e s, 175′ n Eastern Parkway, 2 two-st'y frame dwells., tin roofs; cost, $2,200 each; owner, T. F. Lonney, 230 Hendrix St.; architect, Wm. Danmar, Atlantic and Van Sicklen Aves.

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BUILDING INTELLIGENCE.

South Fifth St., s s, 75′ w Hooper St., four-st'y brick dwell., tin roof; cost, $8,500; owner and builder, Charles F. De Witt, 391 South Second St.; architect, H. W. Billard, 147 Sixteenth St.

Forty-second St., s s, 100′ e Third Ave., 3 three-st'y frame dwells., tin roofs; cost, $2,400 each; owner, Thomas Clark, New York City; architect, J. L. Quensenburg, 1102 Fourth Ave.

Fifty-second St., n s, 320′ w Fifth Ave., 2 two-st'y frame dwells., tin roofs; cost, $1,800 each; owner and builder, A. De Groff, 292 Eighteenth St.

Logan St., w s, 250′ w Liberty Ave., 2 two st'y frame dwells., shingle roofs; cost, $1,500 each; owner and builder, S. W. Stoothoff, East Parkway and Montauk Ave.; architect, Louis F. Schillinger, Liberty Ave. and Barbey St.

St. Mark's Ave., n s, 250′ e Utica Ave., two-st'y frame dwell., tin roof; cost, $3,000; owner, Jed. W. Everson, 167 Columbia Heights.

Fourth St., n s, 47′ 10½″ w Seventh Ave., 4 three-st'y brick dwells., tin roofs; cost, $5,000; owner, architect and builder, F. A. Doyle, 198 Broadway, New York City.

Bainbridge St., s s, 250′ e Stuyvesant Ave., 2 two-and-one-half-st'y brick dwells., tin roofs; cost, $10,000; owner, F. B. Norris, 397 Macon St.; architect, H. Dahlander, 1082 Bedford Ave.

Bushwick Ave., w s, 50′ n Kossuth Pl., 4 four-st'y brick dwells., tin roofs; owners, Beers & Schaffner, Flushing Ave.; architect, Frank Holmberg, 1169 Broadway.

Camden, N. J. — *Mt. Ephraim Ave. and Liberty St.*, 3 two-st'y frame dwells.; owner, Jno. F. Betts.

Chicago, Ill. — David S. Goggin, three-st'y dwell., 4337-4339 Drexel Boulevard; cost, $25,000.

M. T. Olds, two-st'y dwell., Geraldine St. and Irving Park Boulevard; cost, $3,000.

E. K. Boyd, two-st'y dwell., 347 Fifty-seventh St.; cost, $3,000.

John Delvin, two-st'y dwell., 509 Albany Ave.; cost, $5,000.

John G. Willden, three-st'y dwell., 4512 Prairie Ave.; cost, $12,000.

George F. Harding, two-st'y dwell., 2438½ South Park Ave.; cost, $3,000.

J. E. Ennis, three-st'y dwell., 487 Bowen Ave.; cost, $5,000.

James Oscher, three-st'y dwell., 4927 Michigan Ave.; cost, $12,000.

Oscar Nelson, two st'y dwell., 1618 North Ashland Ave.; cost, $3,000.

Henry Furst, two-st'y dwell., 505 Ashland Boulevard; cost, $8,000.

Eggleston Mallette & Brown, 5 two-st'y dwells., 7101, 7105, 7109, 7117 Harvard St.; cost, $20,000.

Chapman Bros. 7 two-st'y dwells., 13-25 Stanley Terrace; cost, $4,500.

A. Stein, three-st'y dwell. and barn, 373 Ashland Boulevard; cost, $10,000.

A. J. Lichtenstein, 2 three-st'y dwells., 3736-3740 Michigan Ave.; cost, $60,000.

Montreal Junction, Que. — dwell.; owner, E. Lusher; architect, James Amess, 18 Hermine St., Montreal.

New York, N. Y. — *Ninety-ninth St.*, n s, bet. Boulevard St. and West End Ave., 8 three and four-st'y brick dwells.; tin roof; cost, $96,000; owner, W. E. Lanchantain, 301 West Eighty-ninth St.; architect, Edw. C. Smith, 45 Liberty St.

Philadelphia, Pa. — *Sansom St., Nos.* 4207-4209, 2 three-st'y brick dwells.; builder, Wm. F. Lowry, 1016 North Forty-third St.

Eighty-sixth St., e s, s Gilson St., two-st'y brick dwell.; builder, John A. Botwright, 904 South Ninth St.

Homestead St., n e s, s e State Road, 2 two-st'y brick dwells.; builder, H. P. Castor, 5811 Torresdale St.

Germantown Ave., e s, s Cambria St., 4 three-st'y brick dwells.; builder, George Stewart, 2536 North Sixth St.

Kimball St., n s, w Twenty-fourth St., 26 two-st'y brick dwells.; owners, R. & A. Wilson, 2024 Moore St.

South Ninth St., No. 615, two-st'y brick dwell.; owner, Wm. Murphy, 723 Walnut St.

Forty-fourth St., s w cor. Lancaster Ave., three-st'y brick dwell; architect, T. Frank Miller, 1221 Arch St.

Uber St., e and w s, n Westmoreland St., fifteen brick dwells.; owner, Jno. Graham, 57 Bringhurst St.

Uber St., e and w cor. Westmoreland St., 5 two-st'y brick dwells.; owner, Jno. Graham, 57 Bringhurst St.

Manayunk Ave., e s, s Hermit St., 4 two-st'y brick dwells.; owner, Jno. A. Mellowdem, cor. Hermit St. and Manayunk Ave.

Tenth St., e s, s Oak Lane, two-st'y brick dwell.; owner, John Nolan, 289 Centre St.

Eighteenth St., n e cor. Pnasyunk Ave., 19 two-st'y brick dwells.; owner, John Hennon, 1213 South Fifteenth St.

C St., w s, s Cambria St., two-st'y brick dwell.; owner, John Brennan, Washington Hotel, G.

Tioga St., s s, e Seventh St., 2 two-st'y brick dwells.; owner, S. L. Walker, 3507 North Seventh St.

Tackawanna St., n s, w Margaretta St., three-st'y brick dwell.; owner, J. C Stackhouse, 3114 Emerald St.

Sixth St., s e cor. Wager St., three-st'y brick dwell.; builder, C. F. Lippincott, 862 North Twenty-fifth St.

Bancroft St., w s, n Huntingdon St., 27 two-st'y brick dwells.; owner, W. G. Serrill, Fifteenth St. and Lehigh Ave.

Ridge Ave., e s, n Huntingdon St., three-st'y brick dwell.; builder, C. E. Bartle, Thirty-third St. and Lehigh Ave.

Alaska St., s w cor. Freytag Ave., three-st'y brick dwell.; builder, Chas. A. Loder, 806 North Sixteenth St.

Eighteenth St., e s, s Morris St., 18 three-st'y brick dwells.; owner, Henry Shetzline, Seventeenth and Mifflin Sts.

Thirty-first St., w s, s Fontaine St., 9 two-st'y brick dwells.; owner, Jas. H. Stevenson & Son, Ridge Ave. and Diamond St.

Ninth St., e s, s Venango St., two-st'y brick dwell.; builder, James H. Dorf, s e cor. Ninth and Venango Sts.

Johnson St., n s, w Sellers St., 2 two-st'y brick dwells.; builders, John T. Moran, 260 West Indiana Ave.

Third St., w s, n Bristol Pike, two-st'y brick dwell.; owner, Wilhelm Muller, s e cor. St. John and Brown Sts.

Third St., e s, n Cayuga St., two-st'y brick dwell.; owner, Christian Seiter, Reese St., s Somerset St.

Leamy St., w s, n Indiana Ave., 6 two-st'y brick dwells.; owner, Jacob Marsch, 339 East Indiana Ave.

Ludlow St., n s, e Forty-eighth St., 3 two-st'y brick dwells.; builder, J. A. Wiker, Sixty-third and One-half St., s Vine St.

Jefferson St., e s, n Pechin St., two-st'y brick dwell.; owner, G. Gillett, 200 Ripka St.

Hobensack St., n s, w Twenty-seventh St., two-st'y brick dwell.; owner, Thomas Fitzpatrick, Shafer and Homestead Sts., Mt. Airy.

Slocum St., n s, e Musgrove St., 2 two-st'y brick dwells.; builders, Howard Jones & Bro., Church St., Germantown.

Bucknell St., e s, n Parrish St., 18 two-st'y brick dwells.; owner, Jno. M. Sharp, 1936 South College Ave.

Park St., w s, n Catharine St., 3 two-st'y brick dwells.; builder, James Johnson, 1713 Sansom St.

Nineteenth St., e s, n Catharine St., 3 three-st'y brick dwells.; builder, James Johnson, 1713 Sansom St.

Homestead St., n e s, s e Tacony St., 2 two-st'y brick dwells.; owner, H. P. Castor, 5811 Torresdale Ave.

Hope St., e s, s Cambria St., 3 two-st'y brick dwells.; owner, Alex. Miller, 2220 Gordon St.

BUILDING INTELLIGENCE.

Reese St., e s, n Somerset St., 4 two-st'y brick dwells.; builder, Silas Walton, 2725 Fairhill St.

Kipp St., e s, s Indiana Ave., 7 two-st'y brick dwells.; owner, Jacob Marsch, 339 East Indiana Ave.

Thirty-first St., w s, s Fountain St., 6 two-st'y brick dwells.; owners, James H. Stevenson & Son, Ridge Ave. and Diamond St.

South Second St., No. 1921, two-st'y brick dwell.; builder, Benwick Moffit, 1999 South Second St.

Twenty-second St., e s, n Tasker St., 4 three-st'y brick dwells.; owner, S. A. Fleming, 1612 South Eighteenth St.

Thorn St., No. 328, three-st'y brick dwell.; builder, Walter S. Van Dyke, 1223 Warnock St.

Forty-seventh St., n e cor. Lancaster Ave., three-st'y brick dwell.; owner, F. Donnelly, 4614 Lancaster Ave.

Markoe St., w s, s Brown St., 2 two-st'y brick dwells.; builder, W. A. Patterson, 3330 Westminster St.

Westminster St., n s, w Forty-sixth St., 12 two-st'y brick dwells.; owner, Harry Weekey, 1047 Belmont Ave.

Eaglesfield St., s s, w Thirty-ninth St., 9 two-st'y brick dwells.; owner, Jacob R. Jordan, 1626 South Broad St.

Fifth St., w s, s Glenwood Ave., 4 three-st'y brick dwells.; owner, Ludwig Lambrecht, 3256 North Fifth St.

North Eighth St., No. 2907, two-st'y brick dwell.; owner, Charles Diehl, 1719 Alder St.

Almond St., e s, s Allegheny Ave., 7 two-st'y brick dwells.; owner, W. S. Weeks, 2014 Huntingdon St.

Clinton St., w s, n Baker St., two-st'y brick dwells.; owners, McGlaughlin & Co., 3880 Clinton St.

Thompson St., e s, n Susquehanna Ave., three-st'y brick dwell.; builder, F. B. Franks, 2215 Emerald St.

Front St., e s, n Tabor St., 4 two-st'y brick dwells.; builder, L. Altemus, Olney.

Emlen St., n e cor. Frank St., three-st'y brick dwell.; builder, George H. Minor, 12 Duval St.

Herman St., n s, e Main St., 4 two-st'y brick dwells.; builder, Charles O. Roop, 4 Herman St.

Duncannon St., n s, w Fourth St., two-st'y brick dwell.; builder, David Traumbaur, Washington Hotel.

Pomona St., n s, e Hancock St., three-st'y brick dwell.; builder, John O. Broadbent, 5016 Main St.

Thompson St., e s, n Tioga St., 2 three-st'y brick dwells.; builder, George Lutchendorf, 3468 Edgemont St.

Orchard St., w s, s Green St., two-st'y brick dwell.; builder, William Ploucher, Walker St., Wissinoming.

Eighth St., w s, n Tivoli St., three-st'y brick dwell.; owner, Samuel P. Mills, 1243 Cumberland St.

McIlvain St., No. 439, two-st'y brick dwell.; owner, W. W. Lawson, 435 McIlvain St.

Hallowell St., No. 629, three-st'y brick dwell.; owner, Antonio Donato, 1005 South Eighth St.

Preston St., e s, s Baring St., 2 three-st'y brick dwells.; builder, J. F. Winner, 3940 Haverford St.

Wayne St., w s, s Chelten Ave., three-st'y brick dwell.; builder, J. D. Caldwell, 205 Wister St.

Dexter St., w s, two-st'y brick dwell.; builder, Frank Gillett, 200 Ripka Ave.

Byberry Road, n s, e Somerton Pike, three-st'y brick dwell.; owner, John Lukens, Somerton.

Allegheny Ave., n e cor. Gaul St., two-st'y brick dwell.; builder, John Schmidt, Rowlandville.

Indiana St., n s, w Second St., 8 three-st'y and 5 two-st'y brick dwells.; owner, Jos. S. Hagan, 2401 North Third St.

Philip St., e s, n Indiana St., *and Second St.*, w s, n Indiana St., 18 two-st'y brick dwells.; owner, Jos. S. Hagan, 2401 North Third St.

Raran St., s s, e Franklin St., 2 two-st'y brick dwells.; builders, Markley & Bevan, 4260 Penn St.

Cabot St., e Nineteenth St., two-st'y brick dwell.; builder, John D. Howden, 1840 Thompson St.

Ridge Ave., s s, s e Frankford Road, two-st'y brick dwell.; builders, Davies & McDonald, Cedar Hill, Frankford.

Ella St., w s, s Indiana Ave., 3 two-st'y brick dwells.; owner, C. Bateson, 4631 Lancaster Ave.

Locust St., n s, e Seventeenth St., four-st'y brick dwell.; builder, A. H. Williams, 402 Tenor Pl.

Tenth St., s e cor. Pryor's Ct., three-st'y brick dwell.; builder, Thomas A. Lynch, 1619 North Fifteenth St.

Second St., e s, s Mifflin St., 2 three-st'y brick dwells.; owner, R. Moffit, 2909 South Second St.

Fairmount Ave., No. 1727, three-st'y brick dwell.; builder, W. R. Dougherty, 1614 Sansom St.

Hall St., e s, n Columbia Ave., three-st'y brick dwell.; builder, Paul Bertrand, 1031 Lawrence St.

Manayunk Ave., w s, n Levering St., 2 three-st'y brick dwells.; builder, Walter Howland, 469 Martin St.

Blair St., n w cor. Roxbury Ave., 2 three-st'y brick dwells.; builder, J. N. McIlvain, 170 Mechanic St.

Tioga St., n s, w Fifteenth St., 2 three-st'y brick dwells.; builder, Benjamin Walker, 3953 Germantown Ave.

Mitchell St., w s, n Riley St., 2 two-st'y brick dwells.; owner, Harry Wauklin, 446 Green Lane.

West Front St., n e Fisher's Lane, two-st'y brick dwell.; builder, Alfred Neeld, Second St. Pike and Courtland St.

Mt. Pleasant St., n s, w Bryant St, three-st'y brick dwell.; builder, John Owens, 73 Sharpnack St.

Twentieth St., e s, s Ontario St., 6 three-st'y brick dwells.; builder, J. Clark Miller, 1525 Clearfield St.

Manayunk Ave., n s, e Shurs Lane, two-st'y brick dwell.; owner, John Stimler, Manayunk Ave., above Shurs Lane.

Manheim St., e s, s Knox St., 2 three-st'y brick dwells.; owner, Frank Piot, 4529 Henry St., Germantown.

Lawrence St., e s, n Duncannon St., 2 two-st'y brick dwells.; builder, David Trambaur, Washington Hotel, Germantown.

Providence, R. I. — *Burnside St.*, w s, two-and-one-half-st'y frame dwell.; cost, $3,250; owner, J. H. Maguire; builder, J. H. Butler.

Redwing St., n s, bet. Bucklin and Greenwich Sts., two-and-one-half-st'y frame dwell.; cost, $4,500; owner, W. O. Talcott; built by contract.

North Main St., e s, bet. Charles and Star Sts., four-st'y brick dwell.; owner, St. John Church Corporation.

Tanner St., w s, two-st'y dwell., French roof; owner, Jas. F. Drury; architect, E. I. Nickerson; builder, John Davidson.

Ste. Anne, Que.—*Valve's Point*, dwell.; owner and architect, A. F. Dunlop, 162 St. James St., Montreal.

Somerville, Mass.—*Washington St.*, cor. Wyatt St., frame dwell., 25′ x 42′; owner and builder, Wallace M. Rice.

Hancock St., No. 24, frame dwell., 25.8′ x 28′; owner, F. W. Friend; builder, G. H. Johnson.

Trull St., frame dwell., 23′ x 33′; owner and builder, M. Mullarkey.

St. Louis, Mo.— Two-st'y brick dwell.; cost, $5,000; owner, E. Henner; contractor, Henner Bros.

Two-st'y brick dwell.; cost, $7,000; owner, E. Henner; contractor, Henner Bros.

Two-st'y brick dwell.; cost, $8,000; owner, Dr. L. Pollman; contract not let.

Two-st'y brick dwell.; cost, $3,600; owner, J. Corbett; contractor, J. M. Crotty.

Two-st'y brick dwell.; cost, $2,500; owner, Geo. Weiss; contractors, Hemminghaus & Vollmer.

Two-st'y brick dwell.; cost, $6,300; owner, A. Shattinger; contractors, Kluth & Boeke.

Two-st'y brick dwell.; cost, $4,600; owner, A. Shattinger; contractors, Kluth & Boeke.

Two-st'y brick dwell.; cost, $7,000; owner, Jac. Grist; contractors, Kluth & Boeke.

Two-st'y brick dwell.; cost, $5,000; owner, Pauline Hehrlein; contractor, A. Althoff.

Two-st'y brick dwell.; cost, $7,000; owner and contractor, G. Schumann.

Four two-st'y brick dwells.; cost, $14,000; owner and contractor, W. L. Balson.

Two-st'y brick dwell.; cost, $3,000; owner, R. Crawford; contractor, R. W. Morrison.

Two-st'y brick dwell.; cost, $2,700; owner, S. Turley; contractors, Stumpf & Bro.

Two-st'y brick dwell.; cost, $2,700; owner, Mrs. B. Karr; contractors, Thompson & Mertz.

Two-st'y brick dwell. and saloon; cost, $4,000; owner, Fk. Koers; contractor, J. Martin.

Two-st'y brick dwell.; cost, $3,300; owner, Mrs. C. Haessel; contractor, R. J. Bosse.

Two-st'y brick dwell.; cost, $2,500; owner, C. F. Holzer; contractor, F. Thelemann.

Six two-st'y brick dwells.; cost, $16,500; owner and contractor, R. C. Newberry.

Two-st'y brick dwell.; cost, $6,700; owner, H. W. Peters; contractor, H. Drees.

Two-st'y brick dwell.; cost, $2,700; owner, H. Siekmann; contractor, H. G. Geiler.

Two-st'y brick dwell.; cost, $2,500; owner, C. Curran; contractor, C. T. Richards.

Two-st'y brick dwell.; cost, $3,400; owner and contractor, J. Wilkinson.

Two-st'y brick dwell.; cost, $3,300; owner, H. Koop; contractors, Zwicki & Doerflinger.

Two-st'y brick dwell.; cost, $2,500; owner, W. Ebbert; contractors, Zwicki & Doerflinger.

Two-st'y brick dwell.; cost, $2,700; owner, Th. Ebell; contractor, J. H. Frye.

Two two-st'y brick dwells.; cost, $6,000; owner and contractor, W. Hambley.

Two-st'y brick dwell.; cost, $3,000; owner, E. G. Muth; contractor, W. Hambley.

Twelve two-st'y brick dwells.; cost, $30,000; owner, A. D. Cooper; contractor, J. B. Birkner.

Two-st'y brick dwell.; cost, $4,200; owner, L. A. Mawewahl; contractor, A. Dietz.

Two-st'y brick dwell.; cost, $4,000; owner, J. Kesselheim; contractor, W. V. De Greefe.

Two-st'y brick dwell.; cost, $3,000; owner and contractor, Thos. Hall.

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BUILDING INTELLIGENCE.

Two-st'y brick dwell.; cost, $4,000; owner, Mrs. J. C. Nichols; contractor, E. Howland.

Two-st'y brick dwell.; cost, $2,900; owner, M. Davis; contractors, Trauel & Sivers.

Two-st'y brick dwell.; cost, $3,000; owners, C. R. H. Davis & Co.; contractor, G. Ruby.

Two-st'y brick dwell.; cost, $3,000; owner, H. Prechter; contractors, W. Riewe & Son.

Two-st'y brick dwell.; cost, $3,000; owners and contractors, P. Schwiete & Bro.

Two-st'y brick dwell.; cost, $4,000; owner, W. O. Halstead; contractor, O. A. Rausenbach.

Two two-st'y brick dwells.; cost, $9,000; owner, N. Frey; contractors, Dunn Bros.

Worcester, Mass.—*Dartmouth St.*, one-and-one-half-st'y frame dwell.; owner, Chas. Marcellas; contractor, C. Le Francois.

Buffum St., one-and-one-half-st'y frame dwell.; owner and contractor, Geo. W. Smith.

Whipple St., one-and-one-half-st'y frame dwell.; owner, Joseph H. Perry; contractor, Wm. O. Burns.

Hollywood St., three-st'y frame dwell.; owner, E. W. Stone; contractor, A. W. Booth.

Greenwood St., three-st'y frame dwell.; owner and contractor, L. M. Petterson.

Tufts St., three-st'y frame dwell.; owner, John Meany; contractor, Eli B. Rogers.

Southbridge St., three-st'y frame dwell.; owner, Jacob Adams; contractor, E. B. Rogers.

Mill St., two-st'y frame dwell.; owner, C. Como; contractor, M. E. Brosnihan.

OFFICE-BUILDINGS.

Chicago, Ill. — L. Z. Leiter, eleven-st'y office-building, 46-48 East Van Buren St.; cost, $200,000.

Philadelphia, Pa. — *Thirteenth St.*, e s, n Filbert St., three-st'y brick office-building; builder, Charles Auchter, 1523 North Twenty-seventh St.

Market St., n s, w Seventeenth St., three-st'y brick office-building; owner, Pennsylvania Railroad Company, Broad St. Station.

Germantown Ave., s w s, s School Lane, one-st'y brick office-building; owner, Rev. Wm. Ashmead Schaeffer.

Thirteenth St., e s, s Chestnut St., five-st'y office-building; builder, Jacob Myres, 1315 Sansom St.

Glenwood Ave., n w s, n e Germantown Ave., two-st'y brick office; owner, James Strong, Twentieth St., n York St.

SCHOOL-HOUSES.

North Conway, N. H. — Two-st'y frame academy, hall and library; architect, E. D. Stebbins; contract not let.

Worcester, Mass. — *South Ward St.*, two-st'y brick and stone school building; owner, City of Worcester; architect, Geo. H. Clemence; contractors, Belisle & Maynard; superintendent of public buildings, Chas. H. Peck.

STABLES.

Boston, Mass. — *Elmwood St., rear*, near Baker St., Ward 23, frame stable; owner, Sarah E. Jones; builder, A. D. Jones.

Camden, N. J. — *Vine St., No.* 623, one-st'y brick stable; owner, Wm. Tallman, 623 Vine St.

Becket St., bet. Third and Fourth Sts., two-st'y brick stable; owner, J. S. White.

Chicago, Ill. — G. E. Jones, 2 two-st'y barns, 43-45 East Twenty-second St.; cost, $5,000.

David Levi, two-st'y barn, 3725 Langley Ave.; cost, $3,000.

B. F. Demute, two-st'y barn, 4500 Greenwood St.; cost, $9,000.

W. Cuthbert, barn, 4838 Greenwood Ave.; cost, $3,000.

Standard Oil Co., barn and warehouse, Ninety-fifth St. and St. Laurence Ave.; cost, $5,000.

Henry Dibblee, barn, 1920 Calumet Ave.; cost, $3,000.

Montreal, Can. — *Bleury St.*, stable; owners, W. & J. S. Wylie; architects, Wright & Sons, 204 St. James St.

New York, N. Y.—*East Thirty-fourth St., Nos.* 221-229, three-st'y brick stable, tin roof; cost, $15,000; owner, New York Condensed Milk Co., 71 Hudson St.; architect, M. V. B. Ferdon, 265 West Thirty-fourth St.

West Sixty-second St., Nos. 42-44, five-st'y brick stable, tin roof; cost, $20,000; owner, O. L. Jones, Cold Spring, L. I., N. Y.; architect, M. C. Merritt, 1267 Broadway.

Philadelphia, Pa.— *Boudinot St.*, w s, bet. Cambria St. and Indiana Ave., two-st'y brick stable; owner, Jno. Slater, w s D St., above Somerset St.

Adams St., e s, s Church St., two-st'y brick stable; owners, Cotter & O'Keefe, Adams and Pine Sts.

E Ave., w s, bet. Seventy-seventh and Seventy-eighth Sts., one-st'y brick stable; owner, Jno. Lumbers, Seventy-seventh St. and Buist Ave.

Cook St., w s, s Spruce St., two-st'y brick stable; owners, Einwechter & Sons, 2019 Wishart St.

Ridge Ave., s w s, s e Fairthorne St., two-st'y brick stable; builder, Sylvester Yardly, 539 East Jefferson St., Roxborough.

Hoffman St., n s, w Front St., one-st'y brick stable; builder, James J. Murphy, 1912 South Front St.

Washington Ave., n s, e Morton St., two-st'y brick stable; builder, Chas. Trout, 5265 Adams St.

North Fifth St., No. 3013, *rear*, two-st'y brick stable; builder, Geo. R. Monteith, 3029 North Fifth St.

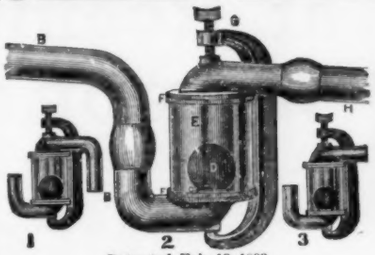
Amber St., w s, n Huntingdon St., two-st'y brick stable; builder, Frank Deitrich, 2677 Frankford Ave.

Twenty-fifth St., e s, s Kimble St., two-st'y brick stable; owners, Robert and Alex. Wilson, 2024 Moore St.

Kater St., s w cor. Carbon St., three-st'y brick stable; builders, Harris & Shurlock, 927 Federal St.

Twenty-second St., w s, n Cambria St., two-st'y brick stable; builder, Christian Plocher, 2432 Philadelphia St.

BENNOR SYPHON TRAP.



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BUILDING INTELLIGENCE.

Fifteenth St., w s, n Dauphin St., three st'y brick stable; builders, Ralph & Gregg, 1233 Olive St.

Almedo St., w s, n Huntingdon St., two-st'y brick stable; builder, Chas. C. Patterson, 1227 West Sergeant St.

Master St., n s, w Fifty-first St., one-st'y brick stable; builders, Wolf & Corriston, 5105 Master St.

Rockland St., n s, w Thirty-fourth St., two-st'y brick stable; owner, John S. Skelly & Co., 433 North Thirty-fifth St.

Dupont St., n s, e Ridge Ave., two-st'y brick stable; owner, F. A. Howarth, Roxborough.

Main St., n e cor. Garfield St., two-st'y brick stable; builder, J. D. Thompson, 114 Seymour St.

Susquehanna St., e s, n Oxford St., two-st'y brick stable; builder, S. B. Landy, 1502 North Twenty-first St.

Twenty-second St., w s, n Cambria St., two-st'y brick stable; builder, C. Plocher, 2432 Philadelphia St.

Ontario St., No. 2010, one-st'y brick stable; builder, D. H. Stroud, 2010 Ontario St.

Allens Lane, n e cor. Green St., one-st'y brick stable; builder, Thomas M. Seeds, 203 Race St.

Byberry Road, n s, e Somerton Pike, two-st'y brick stable; owner, John Lukens, Somerton.

Birch St., No. 2542, two-st'y brick stable; builder, A. McClay, 3026 Richmond St.

Worcester, Mass. — *Milbury St.*, one-and-one-half-st'y frame stable; owner, D. Brannan; day work.

STORES.

Boston, Mass. — *Washington St.*, cor. Hayward Pl., six-st'y brick and marble stores and offices, flat roof, 59′ x 83′; first two stories of iron with plate glass; owner, Harvard College; builders, B. D. Whitcomb & Co.; architects, Fehmer & Page, Boston.

Brooklyn, N. Y. — *Van Siclen Ave.*, w s, 175′ n Liberty Ave., 2 three-st'y frame stores and dwells., felt and gravel roofs; cost, $4,500 each; owner and architect, J. H. Maguire, 155 Liberty Ave.

Third Ave., w s, 20′ s Tenth St., 3 four-st'y brick stores and flats, tin roofs; cost, $8,000 each; owner and builder, John M. O'Neil, 381 Second St.; architects, I. D. Reynolds & Son, 363 Fulton St.

Myrtle Ave., s s, 218′ w Suydam St., 2 four-st'y frame stores and dwells., tin roofs; cost, $5,500 each; owner and builder, Chas. A. Wagner, 65 Suydam St.; architect, Th. Engelhardt, 905 Broadway.

Ellery St., s s, 250′ e Broadway, four-st'y frame store and dwell., tin roof; cost, $6,000; owner, John G. Wanzil, 821 Broadway; architect, Th. Engelhardt, 905 Broadway.

Broadway, n e cor. Ditmars St., three-st'y brick store, tin roof; cost, $20,000; owner, Geo. F. Keim, 760 Broadway; architect, P. J. Lauritzen, 18 East Twenty-third St., New York City.

Fulton St., n w cor. Stuyvesant Ave., four-st'y brick store and dwell., gravel roof; cost, $16,500; owner, F. Halke, Esq., Central Park, L. I.; architect, J. G. Glover, 186 Remsen St.

Belmont Ave., n w cor. Watkins St., three-st'y frame store and dwell., tin roof; cost, $7,000; owner, Bernard Schechtel, Belmont Ave. and Watkins St.; architect, A. J. Warren, 2581 Atlantic Ave.

Fourth Ave., w s, 20′ s President St., four-st'y brick store and dwell., tin roof; cost, $5,000; owner, Geraldo Pargio, Fourth Ave., near Carroll St.; architects, H. L. Spicer & Son, Third Ave. and Fifty-third St.

Franklin Ave., s e cor. Bergen St., four-st'y brick store and dwell., tin roof; cost, $14,000; owner, architect and builder, W. J. Conway, Third Ave. and Sackett St.

Reid Ave., n w cor. Halsey St., 2 four-st'y brick stores and flats; owner, Elias T. Eddy; architect, Ernest Dennis.

Irving Ave., s e cor. Stockholm St., three-st'y frame store and dwell., tin roof; cost, $5,000; owners and builders, A. Amann & Son, 266 Jefferson St.; architect, E. Schrempf, 534 Bushwick Ave.

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BUILDING INTELLIGENCE.

Camden, N. J. — *Seventh St.*, s w cor. Clinton St., brick store; owner, J. C. Curry.

South Third St., No. 951, *rear*, two-st'y brick store; owner, Jno. Fough.

Chicago, Ill.—H. E. Carlyle, two-st'y store and flats, 1308 Sixty-third St.; cost, $3,000.

Arnold Summers, two-st'y store and flats, 5228 Ashland Ave.; cost, $3,000.

S. Schroder, 2 two-st'y stores and flats, Michigan Ave. and Thirteenth St.; cost, $3,000.

Mrs. J. Spith, 2 three-st'y store and flats, 47 South May St.; cost, $15,000.

Frank Crane, two-st'y store, flats and hall, Harvard Ave. and One Hundred and Thirty-sixth St.; cost, $5,000.

G. Vanderside, two-st'y store and flats, Michigan Ave. and Union St.; cost, $4,500.

New York, N. Y. — *Centre St., No.* 206, *Baxter St., No.* 138, six-st'y brick store, tin roof; cost, $30,000; owner, James Bruce, 523 Riverdale Ave.; architect, Richard Berger, 110 Leonard St.

Philadelphia, Pa. — *Ridge Ave*, w s, bet. Seventeenth and Eighteenth Sts., two-st'y brick store; builders, J. Rush & Son, 1229 North Eighteenth St.

Market St. No. 632, four-st'y brick store; builders, Weeks & Michaelson, 4019 Lancaster Ave.

Market St., n s, w Tenth St., six-st'y brick store; builder, Jno. R. Wiggins, 1536 Seybert St.

Worcester, Mass. — *Burnette St.*, one-st'y frame store; owner, James McQuaid; day work.

TENEMENT-HOUSES.

Brooklyn, N. Y.—*Fortieth St.*, s s, 125′ w Third Ave., 5 four-st'y brick tenements, tin roofs; cost, $6,000 each; owner and architect, Wm. Bowers, Flatbush, L. I.

Minneapolis, Minn. — J. W. Johnson, three-st'y brick and stone tenement-house, 2317-19 First Ave. s, and 100 East Twenty-fourth St.; cost, $30,000.

New York, N. Y.—*One Hundred and Forty-fifth St.*, s s, 90′ w Brook Ave., four-st'y brick tenement, tin roof; cost, $12,000; owner, Jas. Martin, 786 East One Hundred and Forty-second St.; architect, A. E. Davis, 2533 Third Ave.

Philadelphia, Pa.—*Sixth St.*, w s, s Bainbridge St., four-st'y brick tenement-house; builder, R. T. Prettyman, 1252 South Twentieth St.

WAREHOUSES.

Chicago, Ill. — Sam Sham, two-st'y warehouse, 286 Forty-third St.; cost, $3,000.

Michigan Central Railroad, four-st'y freight warehouse, e Michigan Ave. and River; cost, $100,000.

Mark R. Kultchar, ten-st'y warehouse, 185-189 East Van Buren St.; cost, $175,000.

Minneapolis, Minn.—Haglin & Morse, six-st'y brick warehouse, 724-26-28 First Ave. n; cost, $25,000.

MISCELLANEOUS.

Brooklyn, N. Y. — *Grand St., Nos.* 744-750, four-st'y brick carriage repository, tar and gravel roof; cost, $20,000; owner, J. S. Remsen, 232 Ainslie St.; architect, E. A. Schoeltel, 264 Ewen St.

Pennsylvania Ave., s e cor. Liberty Ave., three-st'y frame building, shingle and tin roof; cost, $12,000; owner, Young Men's Christian Association, Twenty-sixth Ward; architect, J. G. Glover, 186 Remsen St.

Stone Ave., e s, 150′ n Dumont Ave, three-st'y frame tailor shop, tin roof; cost, $4,500; owners, A. Stone and A. Rapporte, Blake St., cor. Stone Ave.; architect, Louis Danancher, 26 Watkins St.

Camden, N. J. — *Linden St., No.* 521, frame porch; owner, C. Johnson.

Broadway and Chestnut St., one-st'y frame building; owner, J. S. Jackson.

Sycamore St., n e cor. Ann St., one-st'y frame building; owner, James Addison.

Front St., below Kaighns Ave., one-st'y frame building; owner, Camden Glass Co.

Seventh and Market Sts., brick building; owner, Chas. Johnson.

Charlottesville, Va. — Fayerweather Gymnasium, University of Virginia; cost, $26,500; architects, Carpenter & Peebles, Norfolk.

Chicago, Ill.—Mutual Fuel Gas Co., generator building, South Chicago Ave. and Seventy-third St.; cost, $45,000.

New York Central & St. Louis Railroad Co., depot, 156-160 East Twelfth St.; cost, $22,000.

Exposition Depot and Hotel Co., depot and hotel, Seventy-first St. and Avenue B; cost, $50,000.

Minneapolis, Minn. — Alfred Olsen, four-st'y brick and stone store building, 1207-9-11 Washington Ave. s; cost, $30,000.

Elizur D. Griggs, four-st'y brick wholesale building, 311-13-15 Third Ave., n; cost, $25,000.

New York, N. Y. — *Division St., No.* 264, six-st'y brick workshop, tin roof; cost, $10,000; owners, Louis Aaron, 34 Second Ave., Wolf Meitz, 314 Delaney St.; architects, Horenburg & Straub, 122 Bowery.

Philadelphia, Pa.— *Island Road*, s Woodland Ave., brick foundry; owner, Glenmore Iron Co., Seventy-third St. and Woodland Ave.

Reno St., n s, w Thirty-eighth St., two-st'y brick shop; owner, W. T. Vanhorn, 3850 Parrish St.

Welsh Rd, w s, Bustleton, two-st'y brick shop; builder, W. McMillan, Bustleton.

Greenwich Point, 2 three-st'y brick laboratory buildings; owner, Pennsylvania Salt Manufacturing Co., 115 Chestnut St.

Thayer St., n s, e Kensington Ave., one-st'y brick shop; owner, Albert Vogel, 3353 Kensington Ave.

West Jersey Railroad, one-st'y brick shop, depot yard.

Amber St., e s, s Westmoreland St., one-st'y dye-house; builder, Robert Beatly & Bro., 2321 Townsend St.

Eleventh St., w s, n Dauphin St., two-st'y ice plant; owner, Northern Ice Manufacturing Co., 1428 Allegheny Ave.

Woodland Ave., s w cor. Fifty-third St., one-st'y brick boiler-house; builder, J. W. Colfish, Fifty-third St., s w Woodland Ave.

Girard Ave., s s, w Twenty-second St., one-st'y boiler-house; builder, Allen Loxett, 3339 Woodland Ave.

Seventeenth St., n e cor. Beckert St., three-st'y oil-house; builder, George L. Sipps, 619 Walnut St.

Viola St., w Forty-first St., two-st'y brick laundry and dining-room; builder, A. Overturf, 1612 North Nineteenth St.

PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., September 17, 1892. Sealed proposals will be received at this office until 2 o'clock P. M. on the 14th day of October, 1892, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except plumbing, gas-piping, heating-apparatus, elevators, electric wiring and approaches) of the United States Appraiser's warehouse at New York City, N. Y., in accordance with drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at New York City, N. Y. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, or to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposals for the Erection and Completion (except Plumbing, Gas-piping, Heating-apparatus, Elevators, Electric Wiring and Approaches) of the United States Appraiser's Warehouse at New York City, N. Y.," and addressed to W. J. EDBROOKE, Supervising Architect. 875

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PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., September 7, 1892. Sealed proposals will be received at this office until two o'clock P. M. on the 28th day of September, 1892, and opened immediately thereafter, for all the labor and materials required for furnishing and fixing in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Post-office building at Hoboken, N. J., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Hoboken, N. Y. Bids will also be considered for any other system of heating and ventilating in lieu of the above, and parties proposing to supply such must submit with their proposal plans and full specification for same. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals must be enclosed in envelopes sealed and marked "Proposal for the Low-pressure, Return-circulation, Steam-heating and Ventilating Apparatus for the United States Post-office building at Hoboken, N. J.," and addressed to W. J. EDBROOKE, Supervising Architect. 874

Treasury Department, Office Supervising Architect, Washington, D. C., September 7, 1892. Sealed proposals will be received at this office until 2 o'clock P. M. on the 29th day of September, 1892, and opened immediately thereafter, for all the labor and materials required for certain repairs to the United States Court-house, Post-office, etc., building at Macon, Ga., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Custodian at Macon, Ga. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids or to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Certain Repairs to the United States Court-house, Post-office building at Macon, Ga.," and addressed to W. J. EDBROOKE, Supervising Architect. 874

Treasury Department, Office Supervising Architect, Washington, D. C., September 6, 1892. Sealed proposals will be received at this office until 2 o'clock P. M. on the 4th day of October, 1892, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except plumbing and heating apparatus) of the extension to the United States Court-house, Post-office, etc., building at Dallas, Texas," in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Dallas, Texas. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Erection and Completion (except Plumbing and Heating Apparatus) of the Extension to the United States Court-house, Post-office, etc., building at Dallas, Texas," and addressed to W. J. EDBROOKE, Supervising Architect. 874

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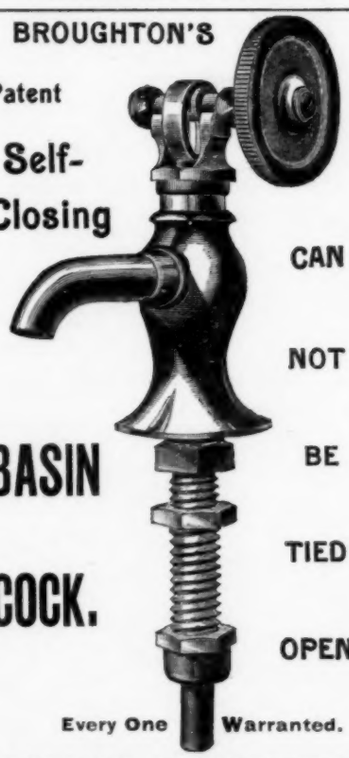

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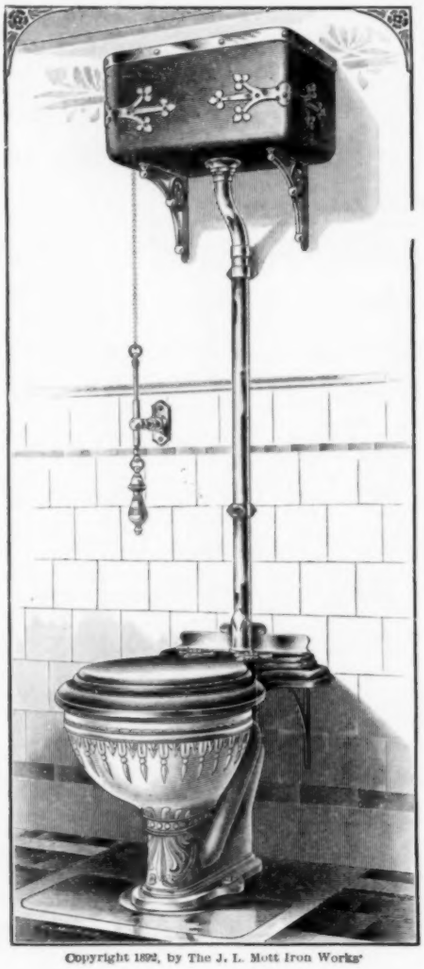

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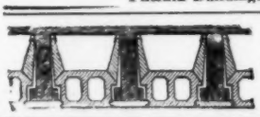

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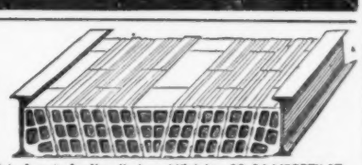

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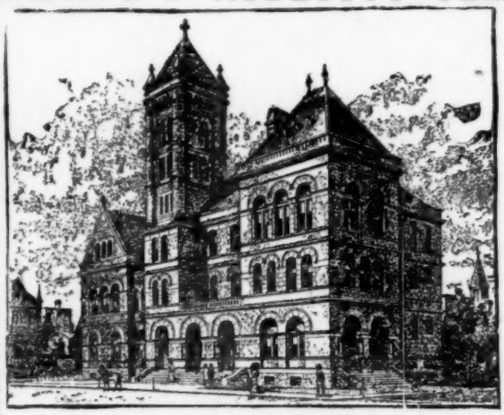
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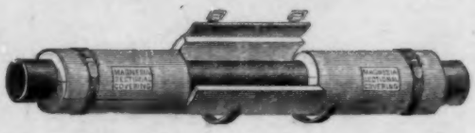

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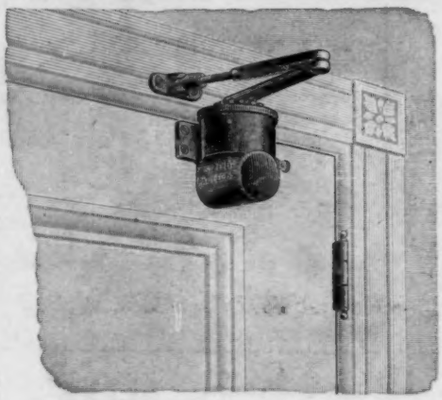

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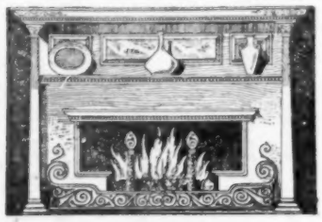

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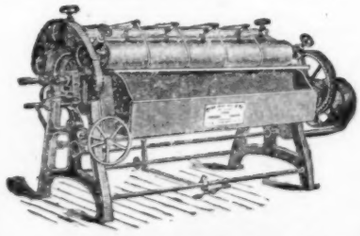

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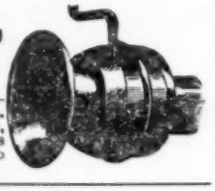

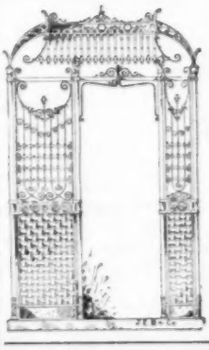

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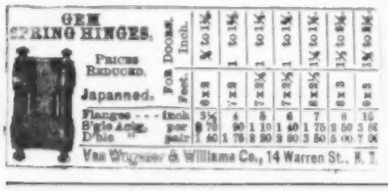

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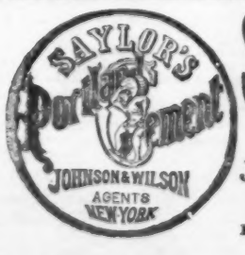

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